CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

610 SOUTH MAIN STREET
CEDARTOWN, GEORGIA 30125

SYMBOL LEGEND (ARCHITECTURE ONLY)

Revision	Building Elevation	Directional Exit Sign
Window Tag	Building Section	Emergency Light
Door Tag (001)	Detail	Combination Tag
Structural Column	Interior Elevation (X / A-1)	Fire Extinguisher
Room Name / Number (ROOM NAME 001)	Partition Type (Ab)	North Arrow

Egress Route: 36" | .15" | ? — ?' - ?"
MAXIMUM TRAVEL DISTANCE
TOTAL EGRESS CAPACITY (PER CODE)
EGRESS FACTOR (PER CODE)
EGRESS WIDTH

SHEET INDEX

COV	COVER SHEET
CIVIL	
C-1	SITE DEMOLITION PLAN
C-2	SITE LAYOUT PLAN
C-3	SITE UTILITY PLAN
C-4	SITE GRADING PLAN
C-5	EROSION & SEDIMENT CONTROL PLAN
LANDSCAPE ARCHITECTURE	
1 of 2	LANDSCAPE PLAN
2 of 2	LANDSCAPE PLAN
ARCHITECTURAL	
LS1.1	GENERAL NOTES AND ADA DETAILS
LS1.2	LIFE SAFETY PLAN
A1.1	FLOOR PLAN
A1.2	ENLARGED PLANS
A1.3	FINISH PLAN
A1.4	REFLECTED CEILING PLAN
A1.5	ROOF PLAN
A2.1	EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A4.1	WALL SECTIONS AND DETAILS
A4.2	WALL SECTIONS AND DETAILS
A4.3	SITE SECTIONS AND DETAILS
A5.1	RESTROOM ELEVATIONS AND SECTIONS
A5.2	INTERIOR ELEVATIONS AND SECTIONS
A6.1	PAVILION PLANS, SECTIONS, AND DETAILS
A6.2	PAVILION ELEVATIONS AND CROSS SECTION
A7.1	DOOR AND WINDOW SCHEDULES
A8.1	MISCELLANEOUS DETAILS
A9.1	METAL ROOF SYSTEM AT EVENT CENTER - ALTERNATE
A9.2	METAL ROOF SYSTEM AT PAVILION - ALTERNATE
A9.3	STAMPED CONCRETE AT EVENT CENTER - ALTERNATE
A9.4	HARDSCAPE THROUGHOUT SITE - ALTERNATE
A9.5	IRRIGATION AT PAVILION LAWN - ALTERNATE
STRUCTURAL	
S0.0	GENERAL NOTES
S0.1	GENERAL NOTES
S0.2	SCHEDULE OF SPECIAL INSPECTIONS
S0.3	SCHEDULE OF SPECIAL INSPECTIONS
S1.0	FOUNDATION PLAN
S2.0	ROOF FRAMING PLAN
S3.0	SECTIONS & DETAILS
S3.1	SECTIONS & DETAILS
S3.2	TYPICAL DETAILS
S3.3	TYPICAL DETAILS
S3.4	TYPICAL DETAILS
S4.0	PAVILION FRAMING & FOUNDATION PLANS, SECTIONS, AND DETAILS
MECHANICAL	
M0.1	HVAC NOTES, LEGENDS, AND SCHEDULES
M0.2	HVAC TYPICAL DETAILS
M1.1	HVAC PLAN
M2.1	HVAC SPECIFICATIONS
M2.2	HVAC SPECIFICATIONS
M2.3	HVAC SPECIFICATIONS
M2.4	HVAC SPECIFICATIONS
PLUMBING	
P0.1	PLUMBING NOTES, LEGENDS, AND SCHEDULES
P0.2	TYPICAL PLUMBING DETAILS
P1.1	HW, CW, SS, AND V. PLANS
P2.1	PLUMBING SPECIFICATIONS
P2.2	PLUMBING SPECIFICATIONS
ELECTRICAL	
E1.1	ELECTRICAL LEGENDS, NOTES, SCHEDULES, & DETAILS
E2.1	ELECTRICAL SITE PLAN
E3.1	ELECTRICAL FLOOR PLAN - LIGHTING
E4.1	ELECTRICAL FLOOR PLAN - POWER
E5.1	ELECTRICAL RISER DIAGRAM, NOTES, SCHEDULES, & DETAILS

PROJECT LOCATION

610 SOUTH MAIN STREET
CEDARTOWN, GEORGIA 30125

GEOGRAPHIC — PROJECT

BUILDING CODE REFERENCES

INTERNATIONAL BUILDING CODE	2012 EDITION
ACCESSIBILITY CODE	DOJ ADA 2010
INTERNATIONAL ENERGY CODE	2012 EDITION
NATIONAL ELECTRIC CODE	2006 EDITION
INTERNATIONAL PLUMBING CODE	2012 EDITION
INTERNATIONAL MECHANICAL CODE	2012 EDITION
NFPA 101 : LIFE SAFETY CODE	2012 EDITION
INTERNATIONAL FIRE CODE	2012 EDITION
CITY OF ROME UNIFIED LAND DEVELOPMENT CODE	RECENT EDITION
SPRINKLE BUILDING PER	NFPA 13

PROJECT INFORMATION

OCCUPANCY CLASSIFICATION	A - 2
BUILDING CLASSIFICATION	TYPE II - B
SQUARE FOOTAGE	4700 SF
TOTAL OCCUPANT LOAD	600 PERSONS

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202 BROAD STREET, SUITE 200
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CIVIL ENGINEER
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WATTERS & ASSOCIATES LANDSCAPING
LANDSCAPE ARCHITECT
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DRINKARD ENGINEERING
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706 237 6013

BOLDEN-WILLIAMS & ASSOC.
ELECTRICAL ENGINEER
3066 HIGHWAY 29 SOUTH
LAWRENCEVILLE, GEORGIA 30044
706 279 0413

STATE OF GEORGIA — W. MARK COCHRAN — CERTIFICATE No. RA12865 — REGISTERED ARCHITECT
11/11/16

CITY OF CEDARTOWN, GEORGIA
LANKFORD EVENT CENTER
610 SOUTH MAIN STREET
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS
△	
△	
△	
△	
△	

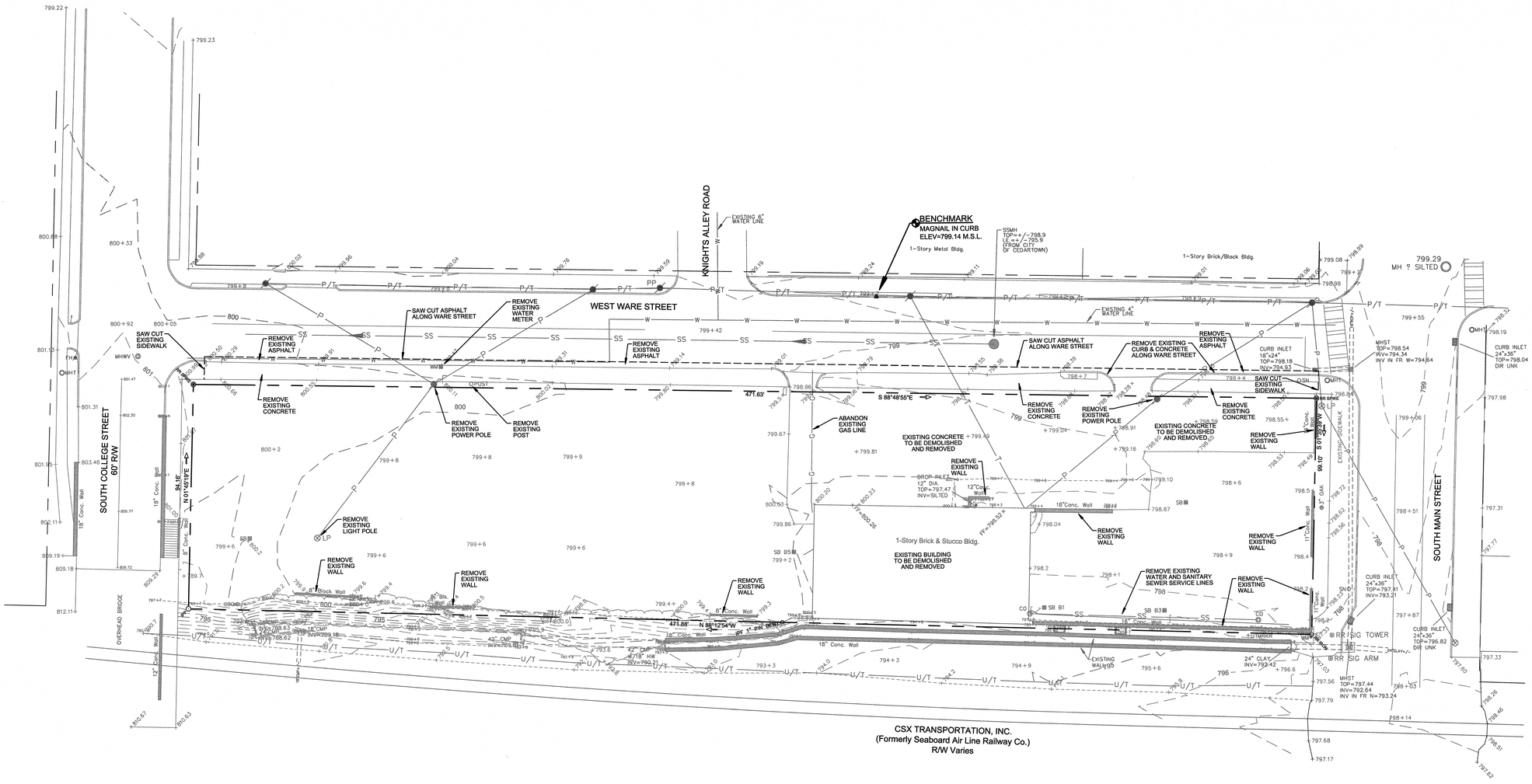
CONSTRUCTION DOCUMENTS

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUED DATE
11/11/16

SHEET TITLE
COVER SHEET

SHEET TITLE
COV

PER GEORGIA CODE OCGA 43-4 THE ARCHITECT WILL BE PROVIDING CONSTRUCTION ADMINISTRATION SERVICES.



GENERAL NOTES:

1. THIS PROPERTY DOES NOT LIE IN AN AREA HAVING SPECIAL FLOOD HAZARDS ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 13233C0044D, EFFECTIVE DATE SEPTEMBER 26, 2008.
2. BOUNDARY INFORMATION TAKEN FROM A SURVEY BY W. VANN ANGEL.
3. TOPOGRAPHICAL MAPPING WAS PROVIDED BY SOUTHERN ENGINEERING & SURVEYING, INC.
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GRAPHIC SCALE
20 0 10 20 40
1 INCH = 20 FEET

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K KONG DESIGNS
INTERIOR DESIGN
404 953 5537

GEORGIA REGISTERED PROFESSIONAL ENGINEER JAMES F. HARDIN, JR.

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

201 EAST AVENUE
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
1/18/16

SHEET TITLE : SITE DEMOLITION PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 04.12.16

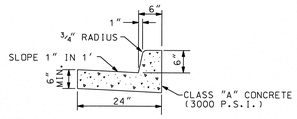
REVISED DATE:

REVISED DATE:

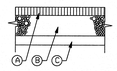
REVISED DATE:

SHEET NO. : C.1

P:\xref Border 2.dwg



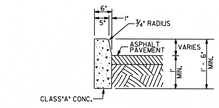
24" CONCRETE CURB AND GUTTER SECTION
N.T.S.



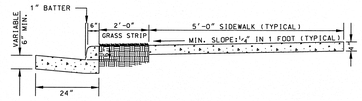
A 2" ASPHALTIC CONCRETE, 9.5MM SUPERPAVE
B 6" GRADED AGGREGATE BASE COMPACTED TO 100% DENSITY.
C SELECT SUBGRADE MAT'L. TOP 12" COMPACTED TO 100% DENSITY

LIGHT DUTY ASPHALT PARKING LOT PAVING DETAIL
N.T.S.

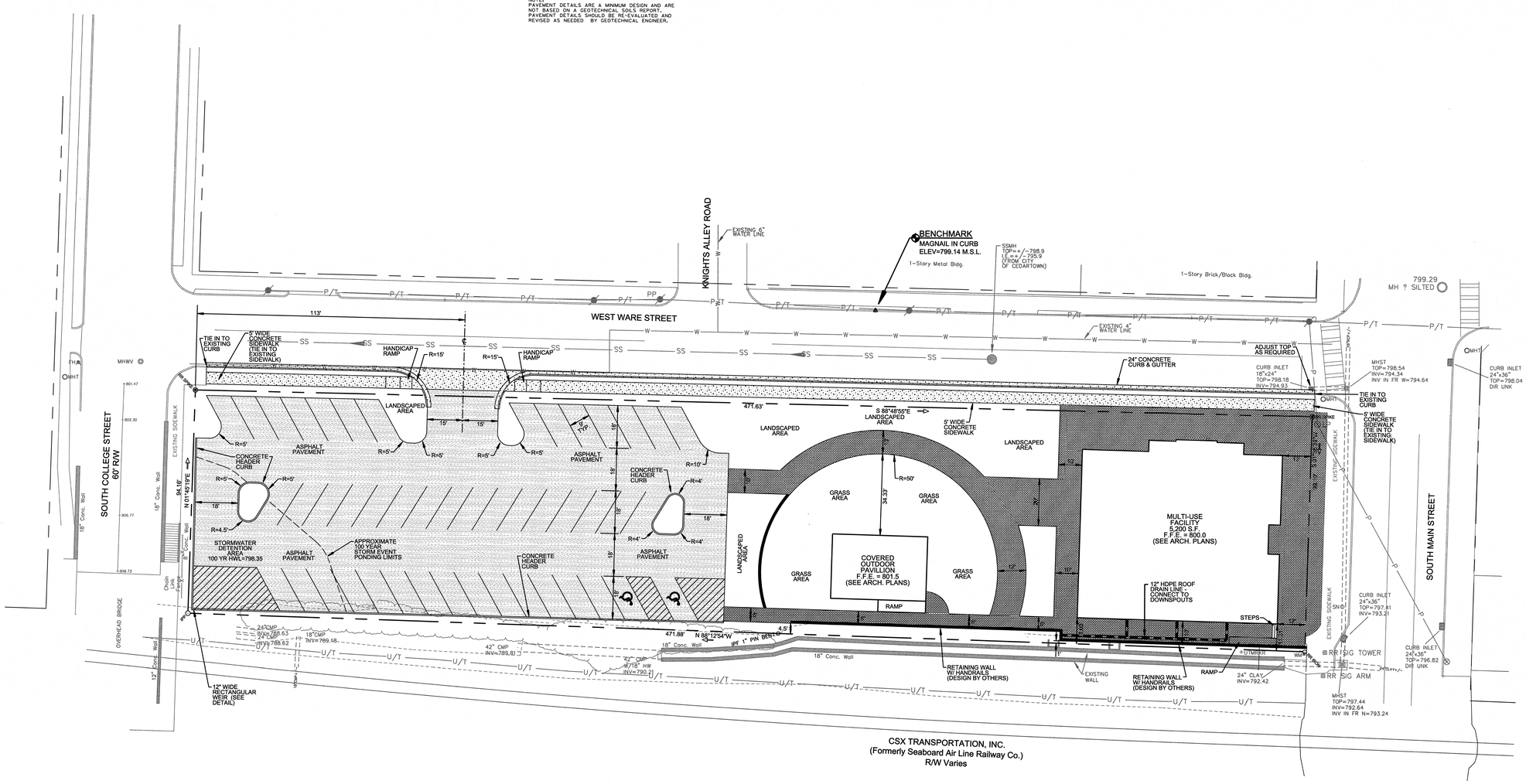
NOTE:
PAVEMENT DETAILS ARE A MINIMUM DESIGN AND ARE NOT BASED ON A GEOTECHNICAL SOILS REPORT. PAVEMENT DETAILS SHOULD BE RE-EVALUATED AND REVISED AS NEEDED BY GEOTECHNICAL ENGINEER.



CONCRETE HEADER CURB
N.T.S.



TYPICAL SECTION 24" CURB & GUTTER WITH 4" SIDEWALK



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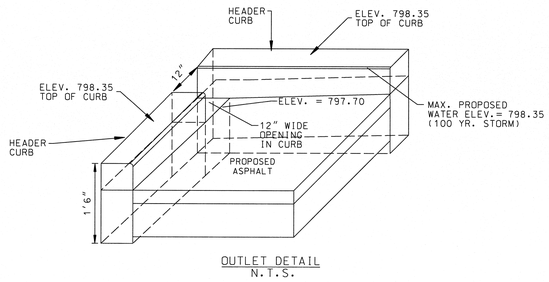
13. H.D.P.E. PIPE TO BE A.D.S. N-12 HP PIPE OR EQUAL.



OUTLET DETAIL
N.T.S.

GRAPHIC SCALE
20 0 10 20 40
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K KONG DESIGNS
INTERIOR DESIGN
404 953 5537

GEORGIA REGISTERED PROFESSIONAL ENGINEER CHARLES F. HARTSFIELD

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

201 EAST AVENUE
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
1/18/16

SHEET TITLE : SITE LAYOUT PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 04.12.16

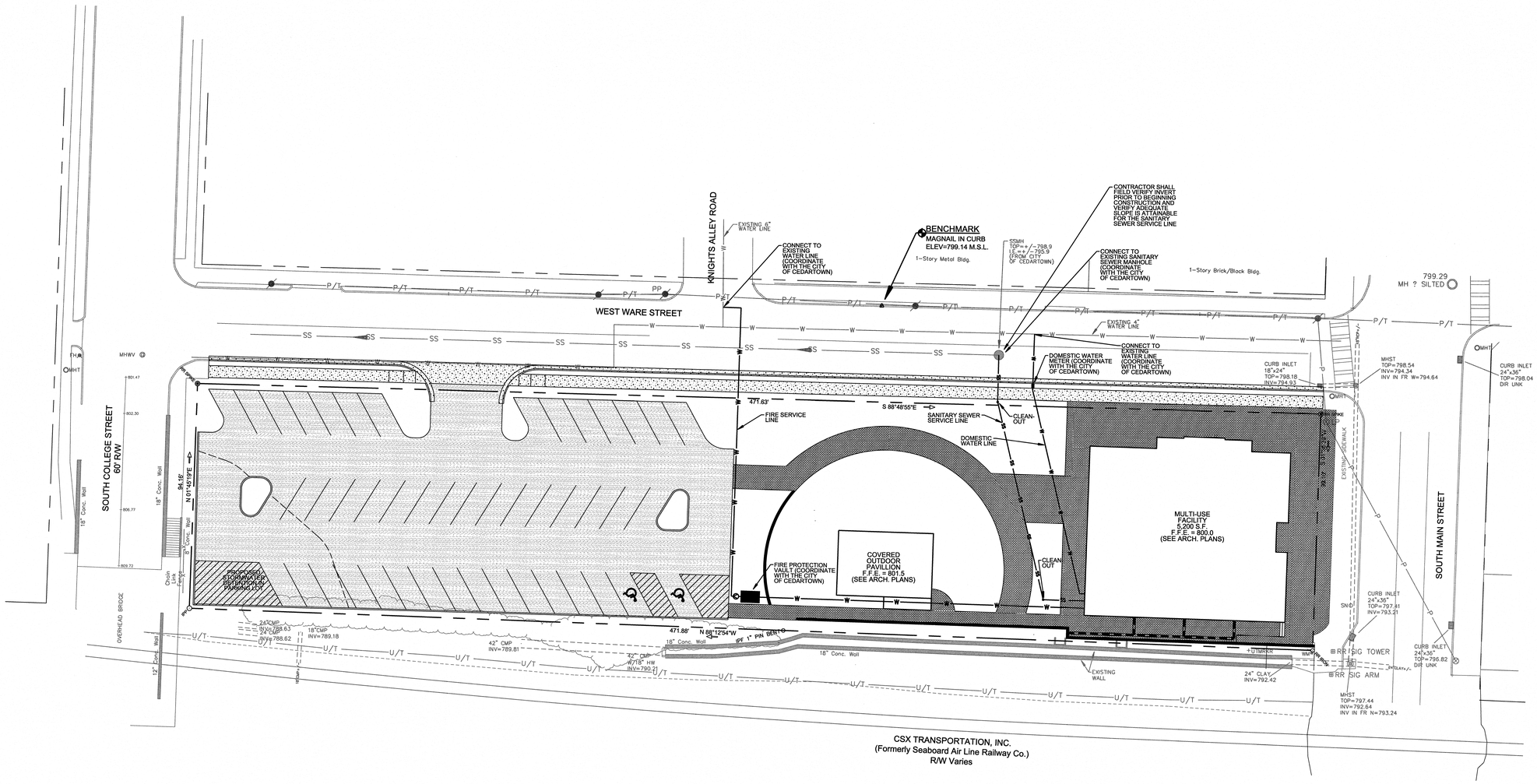
REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C.2

- P:\xref Border 2.dwg



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REVISION #	DATE / COMMENTS

FINAL DESIGN

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ISSUED BY
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1/18/16

SHEET TITLE : SITE UTILITY PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 04.12.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C.3

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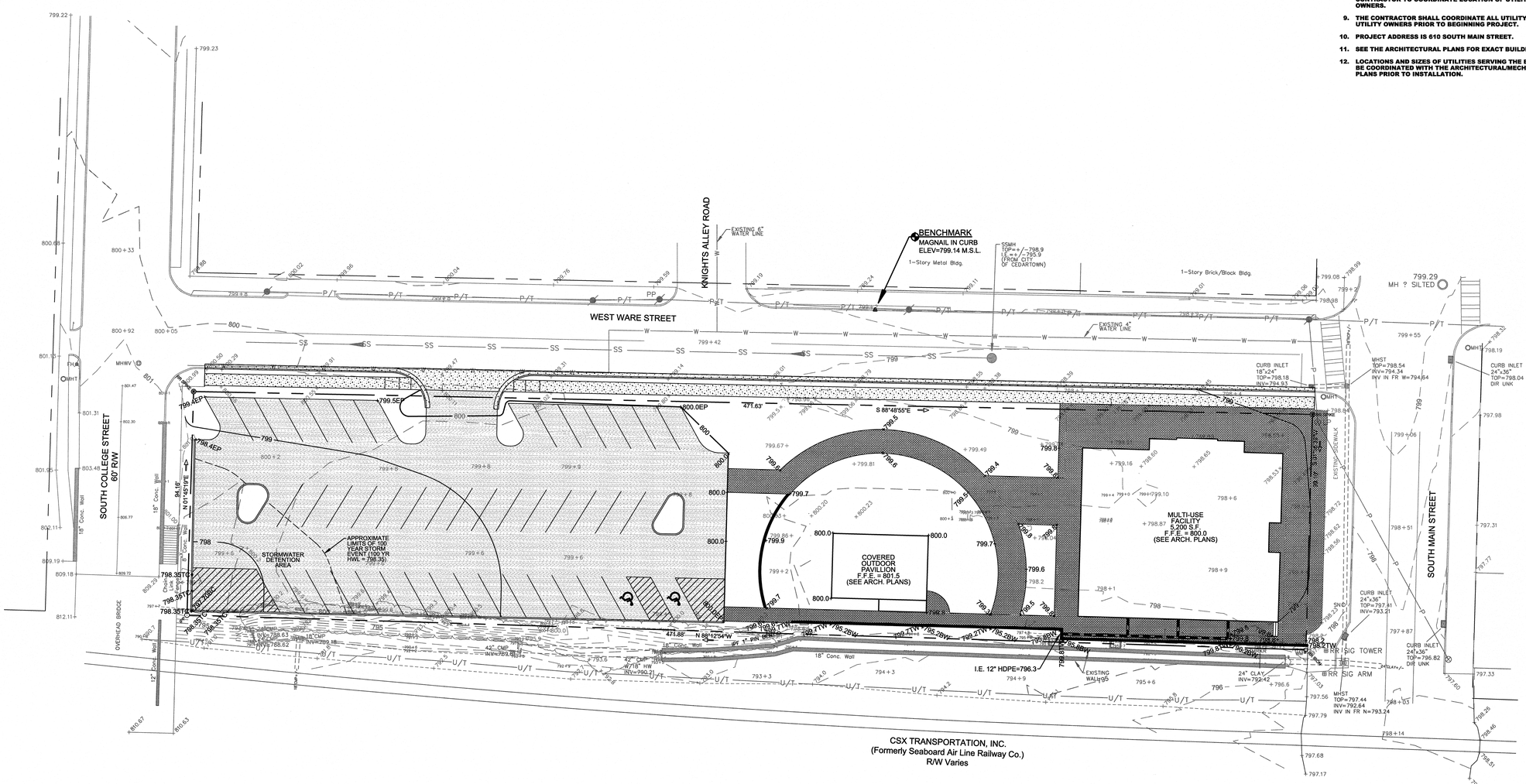

LEGEND

- EXISTING WATER LINE (SIZE AS NOTED)
- EXISTING OVERHEAD POWER, TELEPHONE & CABLE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND CABLE
- EXISTING SEWER LINE (SIZE AS NOTED)
- EXISTING MANHOLE
- PROPOSED STORM SEWER LINE
- RIGHT - OF - WAY LINE / PROPERTY LINE
- EXISTING TREE LINE
- PROP. CONTOUR LINE
- EXISTING CONTOUR LINE
- BUILDING SETBACK LINE
- LANDSCAPE STRIP
- EXISTING WATER METER
- EXISTING HVAC UNIT
- EXISTING CLEANOUT
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING TELEPHONE/TELEVISION PEDESTAL
- EXISTING GAS METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING GRATE INLET

GRAPHIC SCALE

20 0 10 20 40

1 INCH = 20 FEET

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NOTE REGARDING UNDERGROUND UTILITIES:

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- P:\xref Border 2.dwg

CEVIAN DESIGN LAB

CEVIAN® DESIGN LAB, LLC
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706 279 0413

K KONG DESIGNS
INTERIOR DESIGN
404 953 5537

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

201 EAST AVENUE
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
1/18/16

SHEET TITLE : SITE GRADING PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

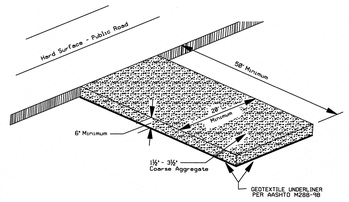
DATE: 04.12.16

REVISED DATE:

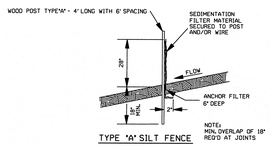
REVISED DATE:

REVISED DATE:

SHEET NO. : C.4



Co GRAVEL CONSTRUCTION ENTRANCE

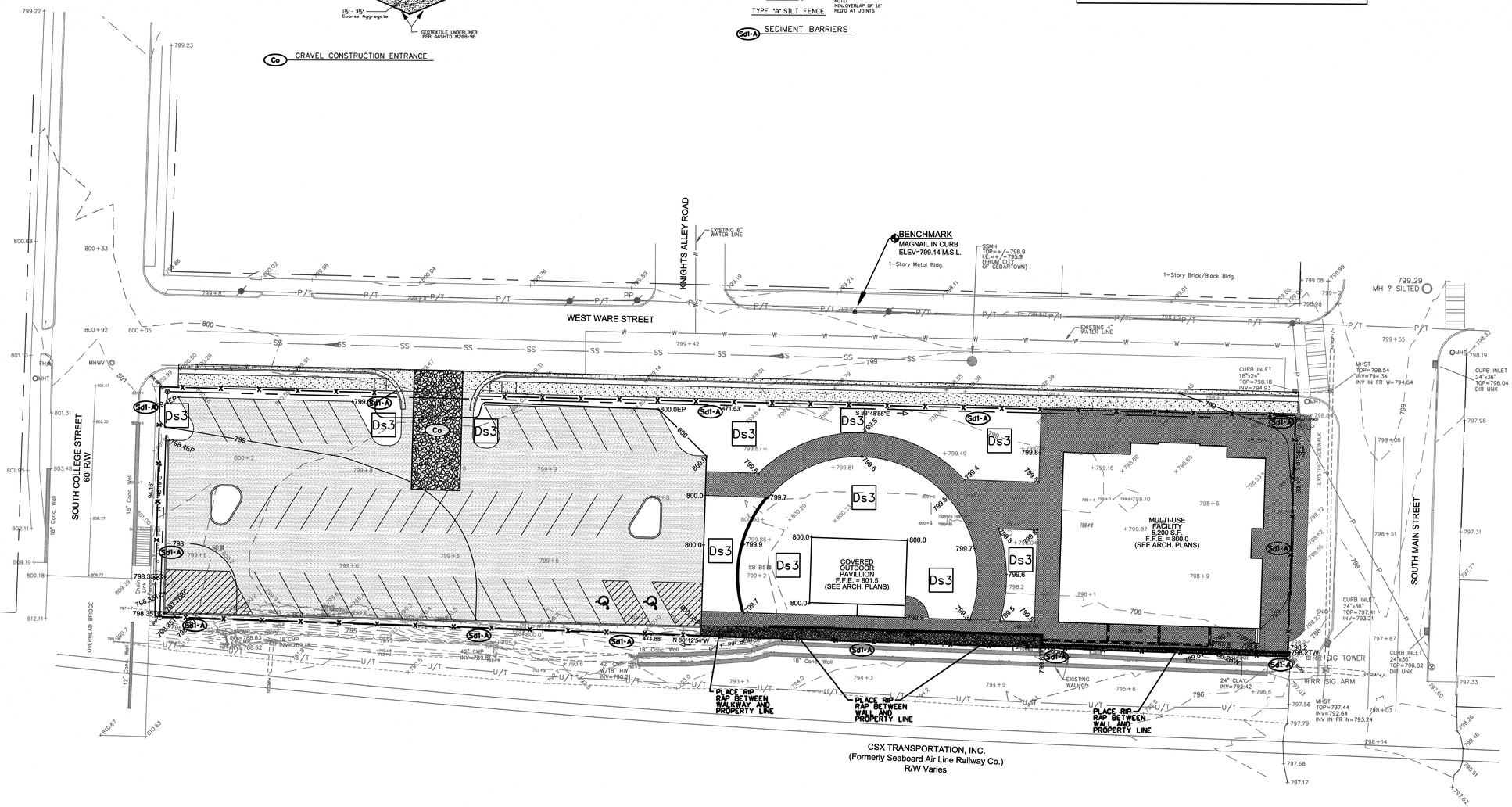


TYPE "A" SILT FENCE

Sd1-A SEDIMENT BARRIERS

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, THEN PERMANENT PERENNIAL VEGETATION SHALL BE USED. MULCH USED FOR TEMPORARY STABILIZATION SHALL BE APPLIED TO A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVER.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.



GENERAL NOTES:

1. **THIS PROPERTY DOES NOT LIE IN AN AREA HAVING SPECIAL FLOOD HAZARDS ACCORDING TO FLOOD INSURANCE RATE MAP NUMBER 13233C0044D, EFFECTIVE DATE SEPTEMBER 26, 2008.**
2. **BOUNDARY INFORMATION TAKEN FROM A SURVEY BY W. VANN ANGEL.**
3. **TOPOGRAPHICAL MAPPING WAS PROVIDED BY SOUTHERN ENGINEERING & SURVEYING, INC.**
4. **THE PROJECT IS LOCATED IN THE CITY OF CEDARTOWN, POLK COUNTY, GEORGIA.**
5. **ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2001 EDITION OR LATEST EDITION.**
6. **ALL WORK SHALL COMPLY WITH CITY OF CEDARTOWN REGULATIONS AND ALL OTHER APPLICABLE REGULATIONS.**
7. **TOTAL PROJECT AREA = 1.05 ACRES.**
   TOTAL DISTURBED AREA = 0.99 ACRE.
8. **EXISTING UTILITIES SHOWN HEREON WERE TAKEN FROM THE BEST INFORMATION AVAILABLE AND MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO COORDINATE LOCATION OF UTILITIES WITH UTILITY OWNERS.**
9. **THE CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH UTILITY OWNERS PRIOR TO BEGINNING PROJECT.**
10. **PROJECT ADDRESS IS 610 SOUTH MAIN STREET.**
11. **SEE THE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.**
12. **LOCATIONS AND SIZES OF UTILITIES SERVING THE BUILDING MUST BE COORDINATED WITH THE ARCHITECTURAL/MECHANICAL/PLUMBING PLANS PRIOR TO INSTALLATION.**
13. **WASTE MATERIALS SHALL NOT BE DISCHARGED INTO THE DRAINAGE SYSTEM FROM THIS SITE.**
14. **ANY REVISIONS TO THE ESPC PLAN THAT RESULT IN A SIGNIFICANT EFFECT ON THE BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**
15. **ALL EROSION AND SEDIMENT CONTROL DESIGNS SHALL CONFORM TO AND SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION TITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMITTEE OF GEORGIA.**
16. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
17. **EROSION CONTROL BARRIERS ARE TO BE PUT IN PLACE BEFORE GRADING OPERATIONS BEGIN AND SHALL BE LEFT IN PLACE UNTIL GRASSING IS COMPLETE AND THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE BARRIERS ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.**
18. **ALL SANITARY SEWER WILL BE DISCHARGED INTO THE MUNICIPLE SEWER SYSTEM.**
19. **NO WETLANDS OR STATE WATERS EXISTS ON OR WITHIN 200' OF THIS SITE.**

TYPE OF GRASS	PLANTING SEASON	MIN. LIME RATE	FERTILIZER RATE (6-12-12)	SEED RATE
BERMUDA	MAY 16 - JULY 31	1 TON / Ac.	1500 lb./Ac.	4 lb./Ac.
FESCUE	MAR. 1 - MAY 15 AUG. 1 - NOV. 15	1 TON / Ac.	1500 lb./Ac.	50 lb./Ac.

Ds3 STABILIZATION WITH PERMANENT VEGETATION

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A CRUSHED STONE BED LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Sd1-A	SILT FENCE SEDIMENT BARRIER			A SEDIMENT FENCE BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
St	STORM DRAIN OUTLET PROTECTION			A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN F. HARDIN, JR.

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

201 EAST AVENUE
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
1/18/16

SHEET TITLE : EROSION & SEDIMENT CONTROL PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 04.12.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C.5

- P:\xref Border 2.dwg

Lankford Center
Landscape Plan
Cedartown, Georgia

WEST WARE STREET

MATCHLINE MATCHLINE

SIDEWALK

Sod

71- Hoogendorn Holly

5/8" SPIKE

6- Red Maple 'October Glory'

27- Daylily 'Stella'

Brick Seat (see civil drawings)

98- Dwarf Yaupon Holly
128- Panicum virgatum 'Heavy Metal'
2- Trident Maple
15- MaryNell Holly

MULTI-USE FACILITY
5,200 S.F.
F.F.E. = 800.5

Sod
(Price Option for Irrigation on lawn area only)

6,371- SF- Brick Pavers- Belden Brick: Belcrest 760 (or equal, to be approved by architect/owner) (see civil drawing for detail)

2- Trident Maple
47- Dwarf Yaupon Holly
52- Panicum virgatum 'Heavy Metal'
51- Arborvitae 'Emerald Green'

COVERED OUTDOOR PAVILLION
1,000 S.F.
F.F.E. = 801.5

2- Trident Maple
36- Dwarf Yaupon Holly
28- Panicum virgatum 'Heavy Metal'

14- Hoogendorn Holly

15" Conc. Mill

IPF 1" PIN BENT

793.0 794.0 794.2 795.1 795.8

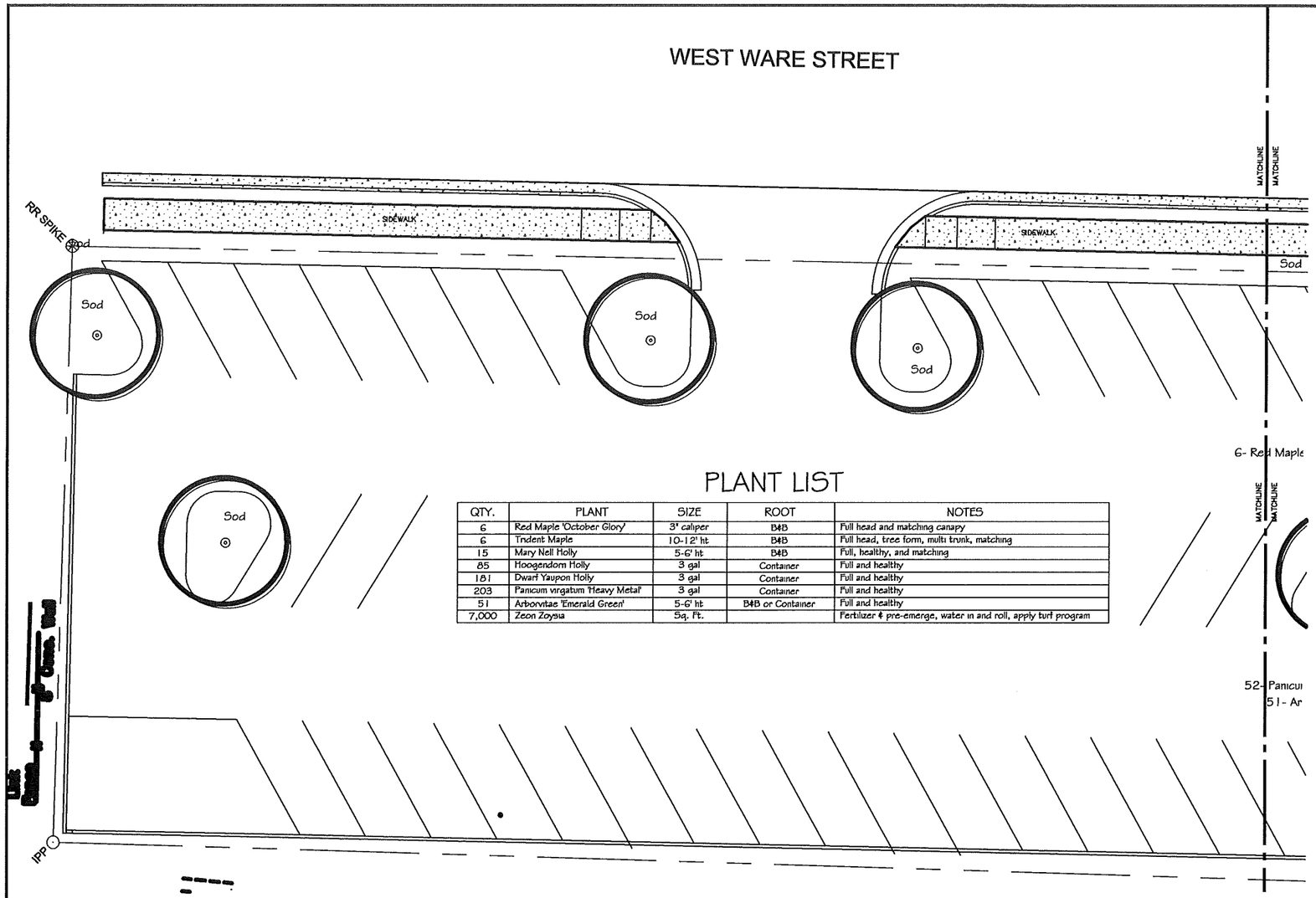
CSX TRANSPORTATION, INC.
(Formerly Seaboard Air Line Railway Co.)
R/W Varies

20 0 20 40 60
Scale: 1" = 20'

Watters & Associates Landscape
Pools and Outdoor Living
www.wattslandscape.com
706-234-5482

Date: 4/21/16
Designed By:B. Gilbert
Drawn By: B. Gilbert
Scale: 1" = 20'

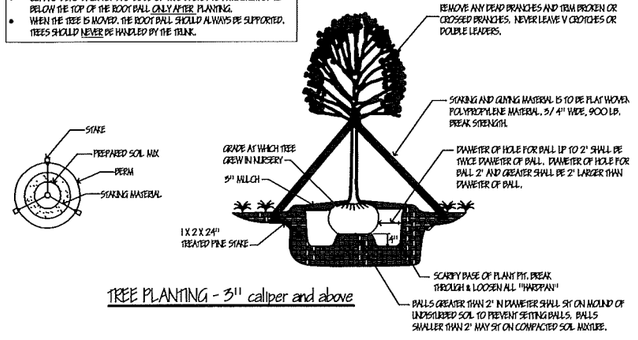
Revisions



PLANT LIST

QTY.	PLANT	SIZE	ROOT	NOTES
6	Red Maple 'October Glory'	3" caliper	B&B	Full head and matching canopy
6	Trident Maple	10-12' ht	B&B	Full head, tree form, multi trunk, matching
15	Mary Nell Holly	5-6' ht	B&B	Full, healthy, and matching
85	Hoogendorn Holly	3 gal	Container	Full and healthy
181	Dwarf Yaupon Holly	3 gal	Container	Full and healthy
203	Panicum virgatum 'Heavy Metal'	3 gal	Container	Full and healthy
51	Arborvitae 'Emerald Green'	5-6' ht	B&B or Container	Full and healthy
7,000	Zeon Zoysia	Sq. Ft.		Fertilizer & pre-emerge, water in and roll, apply turf program

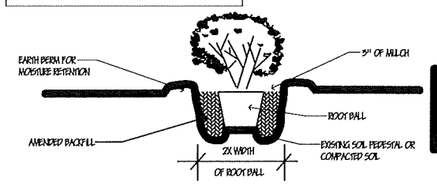
NOTES:
- SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE.
- CUT BURLAP AND REMOVE TOP HALF OF BALL ONLY AFTER PLANTING.
- CUT AND BEND BACK, TOP AND SIDES OF WIRE BASKET TO A MINIMUM OF 12" BELOW THE TOP OF THE ROOT BALL ONLY AFTER PLANTING.
- WHEN THE TREE IS MOVED, THE ROOT BALL SHOULD ALWAYS BE SUPPORTED. TREES SHOULD NEVER BE HANDLED BY THE TRUNK.



TREE PLANTING - 3" caliper and above

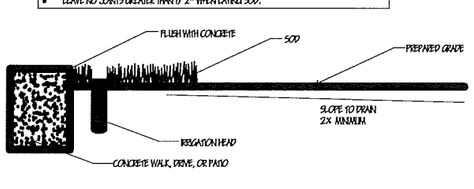
PLANTING SHRUBS

NOTES:
- PRUNE ALL DEAD & BROKEN BRANCHES WHEN PLANTING
- TOP OF ROOT BALL SHOULD BE 1-2" ABOVE EXISTING GRADE
- WATER IN THOROUGHLY AFTER PLANTING
- LOOSEN EDGE OF ROOT BALL PRIOR TO PLANTING



SODDING

NOTES:
- REMOVE ALL STUMPS, ROOTS, & ROCKS FROM SOD AREAS.
- APPLY STARTER FERTILIZER & PRE-EMERGENTS PRIOR TO LAYING SOD.
- ROLL SOD WITH ROLLER (PARALLEL W/ GRADE FIRST, THEN PERPENDICULAR).
- IF NEW IRRIGATION IS INSTALLED, MAKE SURE DITCHES ARE COMPACTED TO PREVENT SETTLING.
- CUT IN SOD AROUND ALL HARD SURFACES, GRATES, METERS, VALVE BOXES, & IRRIGATION HEADS.
- LAY OR ROLL SOD ACROSS SLOPE. START AT THE LOW POINT, AND WORK YOUR WAY UP THE HILL.
- LEAVE NO JOINTS GREATER THAN 1/2" WHEN LAYING SOD.



Site Notes:
1.) Provide positive drainage away from all buildings and structures.
2.) Provide positive drainage away from all walkways, patios, and drives.
3.) Provide a minimum 2% slope for positive drainage in turf and bed areas.
4.) Backfill holes, trenches, walls, or foundations in 12" layers and firmly compact each layer.
5.) Do not backfill with dirt clods or lumpy soils. Use clean, compactable dirt.
6.) Provide solid sub base for all footings for walls, columns, and structures. Do not place footing in recently un-compacted fill dirt.
7.) Place plywood, boards, or tarps over walks, patios, and drives when crossing machines or equipment.
8.) Provide wheat straw or pinestraw on all exposed dirt around buildings, structures, drives, walks, and patios to prevent mud stains.
9.) Provide additional erosion control measures to prevent washing on property when needed.
10.) All grading should be completed within 1/10th of final grade prior to planting.
11.) Confirm all final grades for top of walls, bottom of walls, top of curbs, top of walks, patios, and drives.
12.) Track in all slopes greater than 30%.

Drainage Notes:
1.) Provide positive drainage away from all buildings, structures, walks, patios, and drives.
2.) Use slight berms and swales to direct surface water into drainage structures.
3.) Field locate catch basins to low points to catch maximum amount of surface water.
4.) Provide a band of river rock around catch basins located in beds.
5.) Attach downspout connector to vertical section of down spouts.
6.) Tie in no more than three downspouts into one 4" pipe. Maximum of six downspouts per 6" pipe.
7.) Provide clean outs in all pipes with runs over 100 linear feet.
8.) Set catch basins and inlets 1/4" below final grade.
9.) Tie in catch basins to main drainage line with Y-connectors.
10.) Run all French drains in separate pipe and do not tie into main drainage lines.
11.) Place rocks at exit off drain pipes to prevent erosion and slow down water velocity.
12.) Provide a minimum of 1% slope in smooth wall pipe and 2% in perforated pipe.
13.) All French drains should be a minimum of 12" deep. Provide a layer of filter fabric prior to installing pipe and placing gravel fill.
14.) All hard surfaces should have a minimum slope of 1% for positive drainage.
15.) Avoid dumping downspouts or drain pipes on to walks, patios, or drives.
16.) Set trench drains at low points to maximize catching surface runoff.
17.) Provide a minimum of 1% cross slope in trench drain for positive flow.

Irrigation Notes:
1.) Use schedule 40 PVC for all mainline.
2.) Use a minimum 1" mainline.
3.) Use class 200 PVC for all lateral lines.
4.) All irrigation lines are to be 12"-15" below final grade
5.) Provide a drain valve in the lowest point of the mainline.
6.) All valve boxes are to be set flush with final grade.
7.) All rotor heads are to be set 1/8" - 1/4" below final grade.
8.) Contractor to install backflow preventer in accordance with local guidelines and regulations at point of connection to municipal water supply.
9.) Contractor to provide isolation shut off valve to mainline at backflow preventer.
10.) Contractor is to backfill and compact all ditches so no settling will occur after sod installation.

Irrigation Notes (cont.):
11.) Contractor to provide head placement to ensure overlapping coverage from head to head.
12.) Contractor will not put more than two lines in one 4" wide trench. When more than one line is in a trench provide a minimum of 2" between each line.
13.) Contractor to provide dedicated spray zones for annual color beds.
14.) Contractor to provide outdoor controller when at all possible.
15.) Contractor to provide drip zones for all planting beds with trees, shrubs, grasses, and perennials .
16.) Contractor to provide 4 GPH to all trees and shrubs over 8' mature height.
17.) Contractor to provide 1 GPH to all shrubs, grasses, and perennials.
18.) Contractor to place and adjust heads as to not spray buildings or residence.
19.) Contractor to avoid spraying any other hardscape features when possible.
20.) Contractor to make final adjustments to head to provide complete coverage to all landscape areas.
21.) Contractor to place all turf spays and heads 3-6" away from edge of drives, walks, and patios.
22.) Contractor will not place spays or rotar heads within 3-6" of bed lines.
23.) Contracor to provide in-line drip tube for any ground cover areas that are located in beds covered by drip zones.
24.) Contractor to provide scaled as-built drawings of irrigation system with static water pressure. Also provide GPM usage for each zone.

Planting Notes:
1.) Plant all trees and shrubs with 2-3": of root ball above original grade.
2.) Loosen the roots around all root balls to encourage new root growth.
3.) Provide staking for all trees and large shrubs and make sure they are planted straight.
4.) Dig planting hole two times the width of root ball.
5.) Remove all sticks, large rocks, debris, and loose roots from planting areas prior to planting.
6.) Till all new planting beds to a minimum depth of 6" prior to planting.
7.) Use a mixture of 1/3 organic material, 1/3 top soil, and 1/3 native soil to plant trees and shrubs.
8.) Use a mixture of 1/2 organic matter and 1/2 top soil for all raised annual and perennial beds,
9.) Provide a minimum of 4" of pine straw to all planting beds and tree wells.
10.) Foot edge all bedlines and tree well at time of installation.
11.) Hand rake or prepare all sod areas to remove loose clumps, rocks, and roots as well as other debris.
12.) Spray out all weeds and existing grass prior to installation to give adequate time to die off.
13.) Apply starter fertilizer and pre-emergent after prepping and prior to laying sod.
14.) Lay sod running perpendicular to slope when possible.
15.) Lay sod with joints offset from previous row.
16.) Sod joints should be 1/2" or less. Patch all joints over 1/2".
17.) Remove netting when laying sod on athletic fields.
18.) Cut in all overlapping joints and bedlines.
19.) Water in all plant material and sod after installation.
20.) Roll sod after it is wet enough to be smoothed out by sod roller.
21.) Prune all broken limbs and branches on tree and shrubs at time of planting.
22.) Remove all tags and labels from new plantings.
23.) Remove all trash and debris from job site.

20 0 20 40 60

Scale: 1" = 20'

Lankford Center
Landscape Plan
Cedartown, Georgia

Watters & Associates Landscape
Pools and Outdoor Living
www.wattterslandscape.com
706-234-5482

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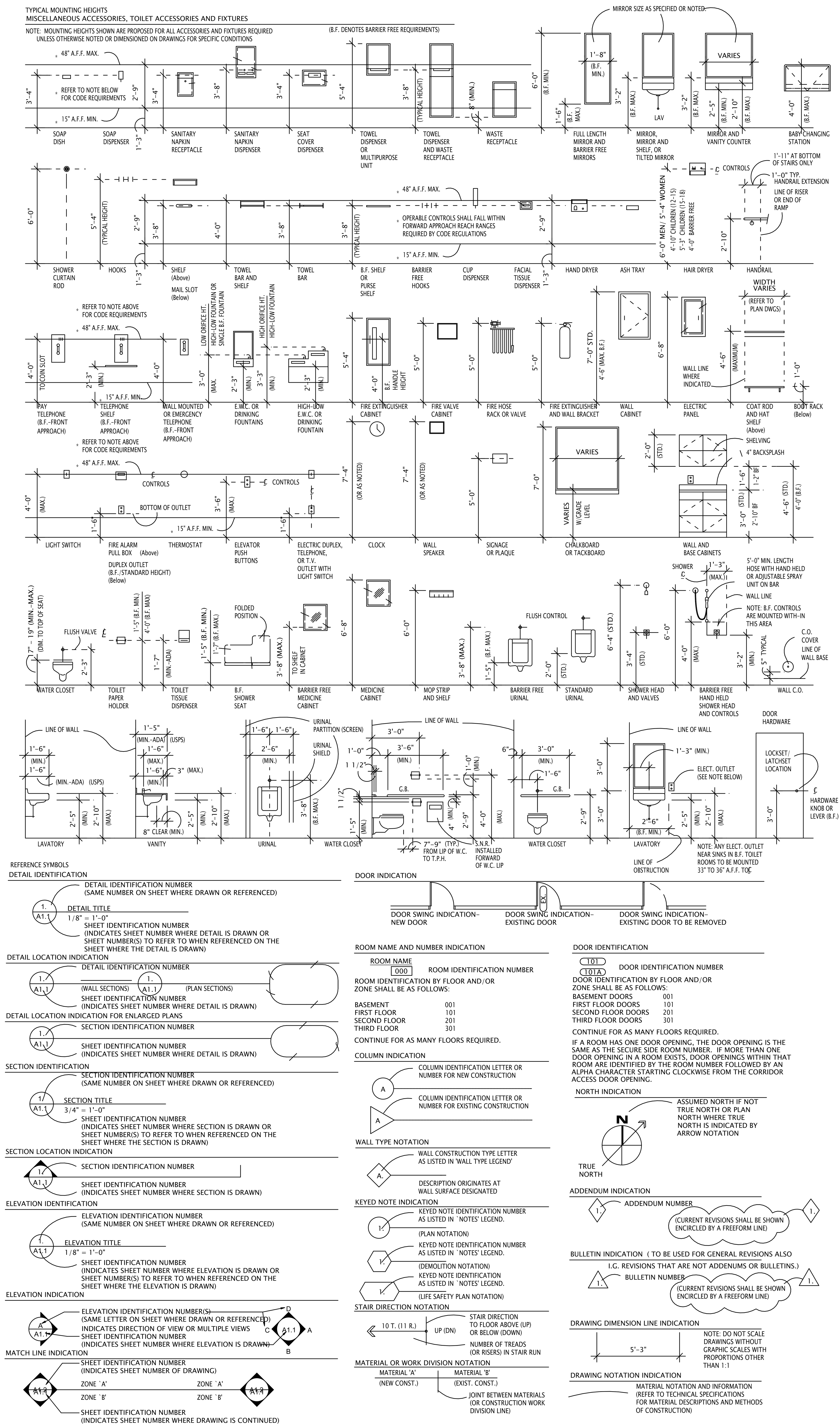

ADA DETAILS AND GENERAL REFERENCE SYMBOLS

NOT TO SCALE

GENERAL NOTES, TYPICAL OF ALL ARCHITECTURAL SHEETS

CONTRACTOR SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF REQUIRED DIMENSIONS, CONTRACTOR SHALL NOTIFY ARCHITECT.

VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES AT JOB SITE. CONTRACTOR SHALL LAYOUT ALL AREAS AND VERIFY WITH ARCHITECT PRIOR TO COMMENCING CONSTRUCTION OF NEW WALLS.

VERIFY SIZE, LOCATION, AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT TO BE FURNISHED BY OWNER OR OTHERS WITH MANUFACTURER OF SUPPLIER BEFORE ANY CONSTRUCTION PERTAINING TO SAME IS STARTED.

VERIFY SIZE AND LOCATION OF OPENINGS FOR MECHANICAL EQUIPMENT AND WORK WITH CONTRACTORS INVOLVED.

ERRORS AND / OR OMISSIONS IN ROOM, DOOR, AND WINDOW SCHEDULES DO NOT RELIEVE THE CONTRACTOR FROM WORK SHOWN ON DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.

CEILING HEIGHTS INDICATED ON THE REFLECTED CEILING PLANS ARE DERIVED FROM FINISH SLAB ELEVATIONS.

SEAL AROUND CONDUIT AND PIPE PENETRATIONS IN SMOKE WALLS AND ONE HOUR WALLS AROUND HAZARDOUS AREAS AS REQUIRED TO ACHIEVE SPECIFIED WALL RATING. PROVIDE VERTICAL BLOCKING (AND HORIZONTAL AS REQUIRED) FOR EACH SIDE OF REQUIRED GYPSUM BOARD PLATES IF REQUIRED.

FOR DUCT PENETRATIONS IN WALLS OTHER THAN SMOKE WALLS AND ONE HOUR WALLS AROUND HAZARDOUS AREAS, SEAL GAPS WITH GYPSUM JOINT COMPOUND AND TAPE FOR GAPS LESS THAN 1/4". TIGHTLY PACK GAPS BETWEEN 1/4" AND 1/2" WITH FIRE SAFING INSULATION. GAPS LARGER THAN 1/2" ARE NOT ALLOWED.

SEAL AROUND DUCT PENETRATIONS IN WALLS. INSTALL FRAMING FOR DUCT OPENING AND INDEPENDENT STEEL ANGLE FRAME FOR DUCT WITHIN 1/8" TO 1/4" GAP FROM WALL SURFACE AT EACH SIDE. SEAL AROUND PERIMETER OF RETAINING ANGLES WITH FLEXIBLE CAULKING.

SEAL ALL EDGES AND PENETRATIONS AROUND THE PERIMETER AND INTERIOR OF ALL CABINETS, EXPOSED PLUMBING AND DOOR FRAMES.

COORDINATE ROUGH-INS AND STUD WALL FRAMING LOCATIONS TO PROVIDE A MINIMUM OF 18" FROM THE CENTERLINE OF EACH WATER CLOSET BOWL TO FINISH WALL SURFACES AND 15" FROM CENTERLINE OF WALL-MOUNTED LAVATORY TO FINISH WALL SURFACES UNLESS NOTED OTHERWISE.

CONTRACTOR SHALL VERIFY THE REQUIREMENT FOR BLOCKING IN WALLS OF HANDRAILS, GRAB BARS, ETC., AND PROVIDE ADEQUATE BLOCKING TO WITHSTAND 250LB. VERTICAL LOAD. THIS SHALL ALSO APPLY TO ALL VANITIES, WRITING COUNTERS, AND WALL HUNG PLUMBING FIXTURES.

ALL WORK SHALL CONFORM TO LOCAL AND STATE BUILDING CODES AND HEALTH REGULATIONS HAVING JURISDICTIONS. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THIS PROJECT BE BUILT IN COMPLIANCE WITH THE ADA GUIDELINES FOR BUILDINGS AND FACILITIES. DURING CONSTRUCTION THE CONTRACTOR SHALL CONSULT THE ADA STANDARDS. SHOULD THE CONTRACTOR OR SUPPLIER BECOME AWARE OF ANYTHING THAT DOES NOT MEET ADA REQUIREMENTS, THEY ARE TO NOTIFY THE ARCHITECT.

CONTRACTOR SHALL OBTAIN FIELD APPROVALS AND PERMITS FROM GOVERNING AGENCIES AND REQUIRED AND PAY ALL FEES.

PROVIDE COMPLETE LABOR, MATERIALS, AND SUPERVISION FOR ANY AND ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION AND OPERATION.

ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

VERIFY WITH OWNER AND ARCHITECT ALL MILLWORK OPENINGS FOR OWNER SUPPLIED ITEMS THAT ARE NOT IN CONTRACT.

ANY NOTE, SYMBOL, TITLE, REFERENCE, ETC., WITH AN "?" OR AN "? / A?" SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO BIDDING.

CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF BOTH NEW AND EXISTING FACILITIES FROM DAMAGES INCLUDING BUT NOT LIMITED TO WATER AND FLOOD DAMAGE, RESULTING FROM AND DURING CONSTRUCTION.

CONTRACTOR TO CONFIRM ALL APPLIANCE AND EQUIPMENT DIMENSIONS WITH MANUFACTURER LITERATURE.

PRODUCTS SPECIFIED ARE FOR BASIS OF DESIGN, PROPOSED PRODUCTS OF EQUAL QUALITY ARE TO BE APPROVED BY ARCHITECT.

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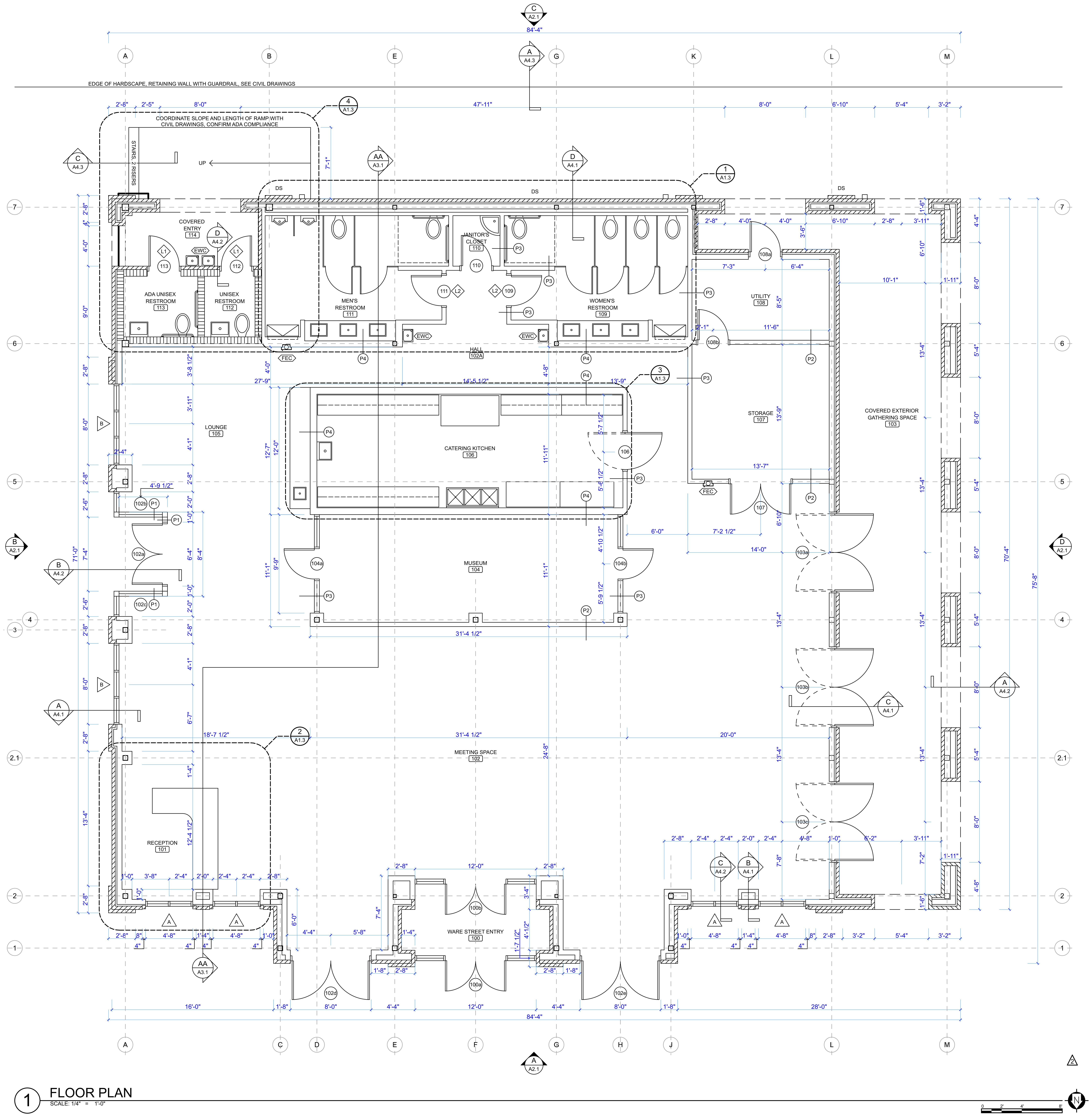
SHEET TITLE
GENERAL NOTES AND ADA DETAILS

SHEET TITLE
LS1.1



1 FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
101	SCHEDULED DOOR AND FRAME
A	SCHEDULED WINDOW UNIT
ROOM NAME 101	SCHEDULED ROOM NAME AND NUMBER
X AX.X	DETAIL SYMBOL
X AX.X	SECTION SYMBOL
L1	LOUVER SEE DOOR SCHEDULE
AX.X	INTERIOR ELEVATION SYMBOL
X AX.X	EXTERIOR ELEVATION SYMBOL
P1	6" STEEL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD ABOVE STOREFRONT EXTEND TO BOTTOM OF STEEL DECK. PROVIDE BATT INSUALTION
P2	4" STEEL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD EXTEND TO BOTTOM CORD OF STEEL JOIST OR BOTTOM FLANGE OF STEEL BEAM. INSTALL SOUND BATTS.
P3	4" STEEL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD MAINTAIN LEVEL , BRACE AS REQUIRED. INSTALL SOUND BATTS.
P4	8" STEEL STUDS @ 16" O.C. W/ 5/8" GYPSUM BOARD EXTEND TO BOTTOM CORD OF STEEL JOIST OR BOTTOM FLANGE OF STEEL BEAM. INSTALL SOUND BATTS.
EWC	ELECTRIC WATER COOLER
FEC	FIRE EXTINGUISHER CABINET

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SHEET TITLE
FLOOR PLAN

SHEET TITLE
A1.1

LEGEND

Symbol	Finish
	POLISHED CONCRETE
	PORCELAIN TILE
	STAMPED CONCRETE (ALTERNATE)
	QUARRY TILE
	SEALED CONCRETE
	BROOM FINISHED CONCRETE

ROOM FINISH SCHEDULE

--- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
GB - GYPSUM BOARD - NO PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB - MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB - IMPACT RESISTANT GYPSUM BOARD - NO PAINT

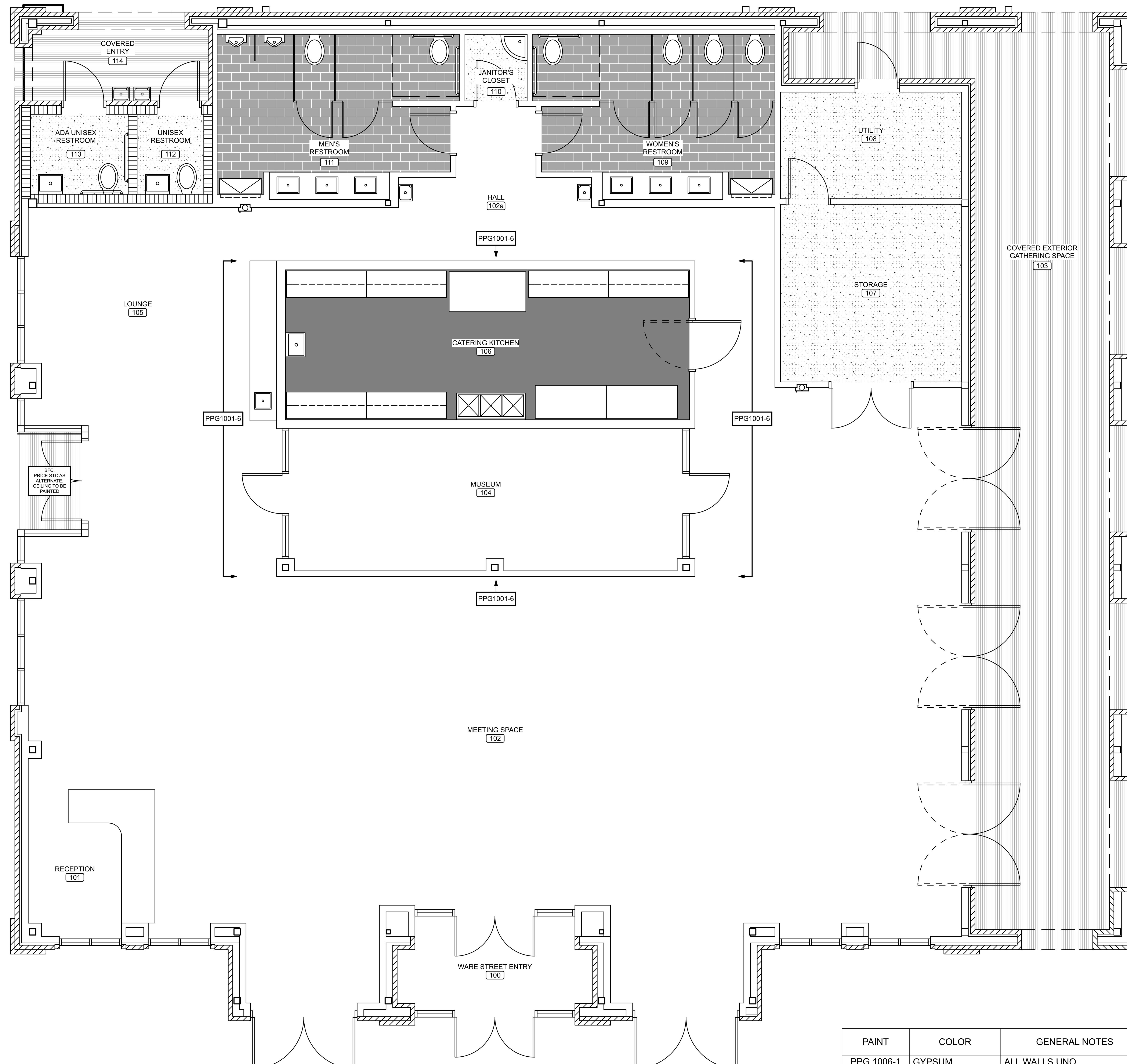
CMUP - CONCRETE MASONRY UNIT - PAINT
CMU - CONCRETE MASONRY UNIT - NO PAINT
IMWP - INTERIOR METAL WALL PANELS
PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE

TR - TERRAZZO
SC - SEALED CONCRETE
PC - POLISHED CONCRETE
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
C - CARPET

PF - POLYMER FLOORING
RB - RUBBER BASE
WB - WOOD BASE
VCB - VENTILATED COVE BASE
STC - STAMPED CONCRETE
QT - QUARRY TILE
QTB - QUARRY TILE INTEGRATED BASE

PTB - PORCELAIN TILE INTEGRATED BASE
BFC - BROOM FINISHED CONCRETE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
100	WARE STREET ENTRY	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	COORDINATE GBP with BRICK and STOREFRONT - SEE PLAN
101	RECEPTION	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
102	MEETING SPACE	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
102A	HALL	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
103	GATHERING SPACE (EXTERIOR)	BFC	---	BRICK	BRICK	BRICK	BRICK	SEE RCP PLAN		---	---	PRICE STAMPED CONCRETE AS ALTERNATE, SEE A9.3 HARDI BOARD CEILING TO BE PAINTED
104	MUSEUM	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 9' 6"' AFF
105	LOUNGE	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
106	CATERING KITCHEN	QT	QTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		---	---	
107	STORAGE	SC	RB	GB	GB	GB	GB	SEE RCP PLAN		---	---	
108	UTILITY	SC	RB	GB	GB	GB	GB	SEE RCP PLAN		---	---	
109	WOMEN'S RESTROOM	PT	PTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		PT	5'-0"	DAL TILE, COLORBODY PORCELAIN: PLAZA NOVA, IN GRAY FOG PN98, 12" x 24", RUNNING BOND PATTERN WITH BLACK GROUT
110	JANITOR'S CLOSET	SC	RB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		---	---	
111	MEN'S RESTROOM	PT	PTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		PT	5'-0"	DAL TILE, COLORBODY PORCELAIN: PLAZA NOVA, IN GRAY FOG PN98, 12" x 24", RUNNING BOND PATTERN WITH BLACK GROUT
112	UNISEX RESTROOM	SC	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	
113	ADA UNISEX RESTROOM	SC	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	
114	COVERED ENTRY	BFC	---	BRICK	BRICK	BRICK	BRICK	SEE RCP PLAN		---	---	PRICE STAMPED CONCRETE AS ALTERNATE, SEE A9.3 HARDI BOARD CEILING TO BE PAINTED



PAINT	COLOR	GENERAL NOTES
PPG 1006-1	GYPSUM	ALL WALLS UNO
PPG 1001-6	KNIGHT'S ARMOR	NOTED ON FINISH PLAN
BM 2051-60	BIRD'S EGG	HARDIE BOARD CEILINGS

1 FINISH PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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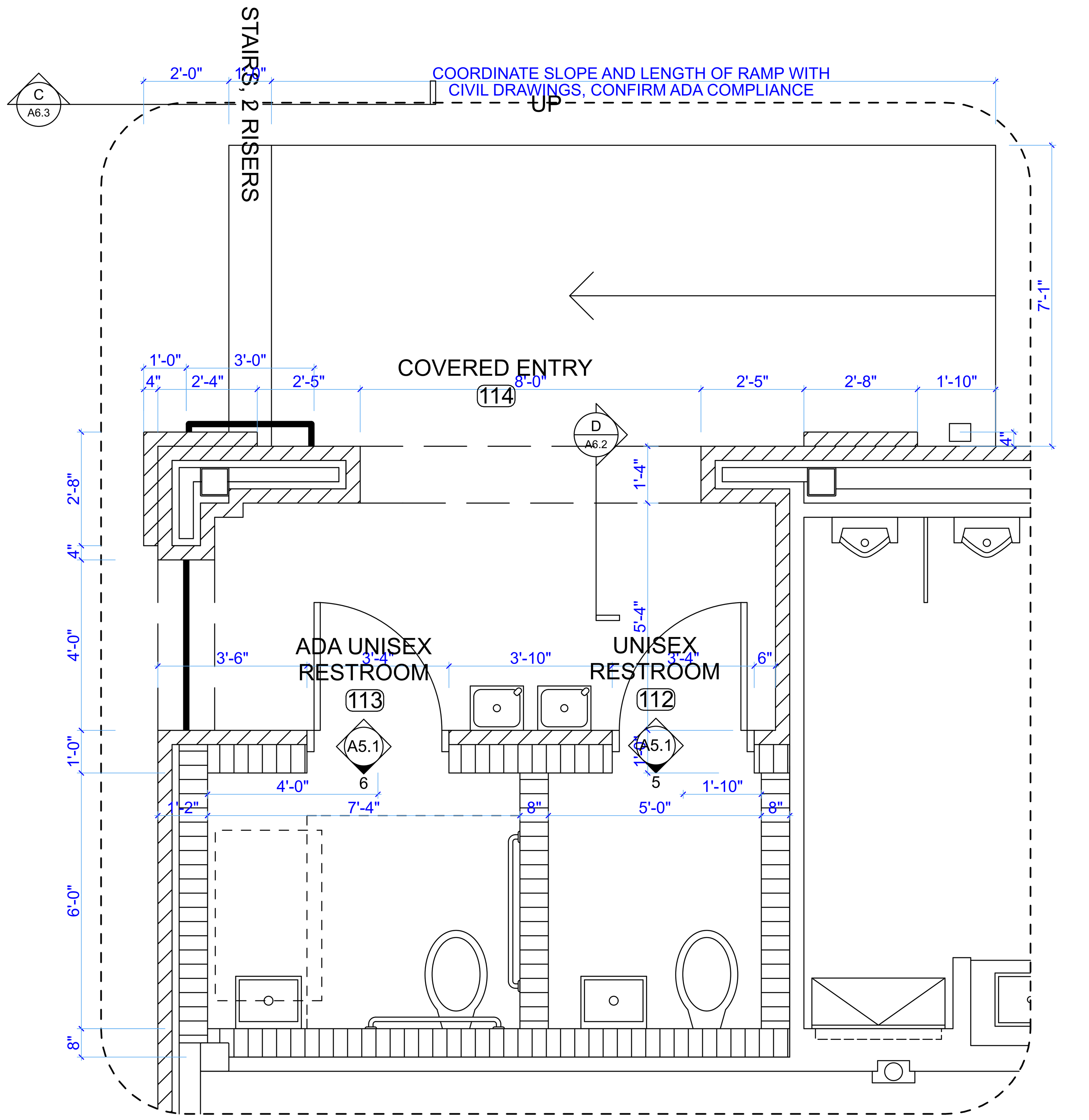
SHEET TITLE
FINISH PLAN

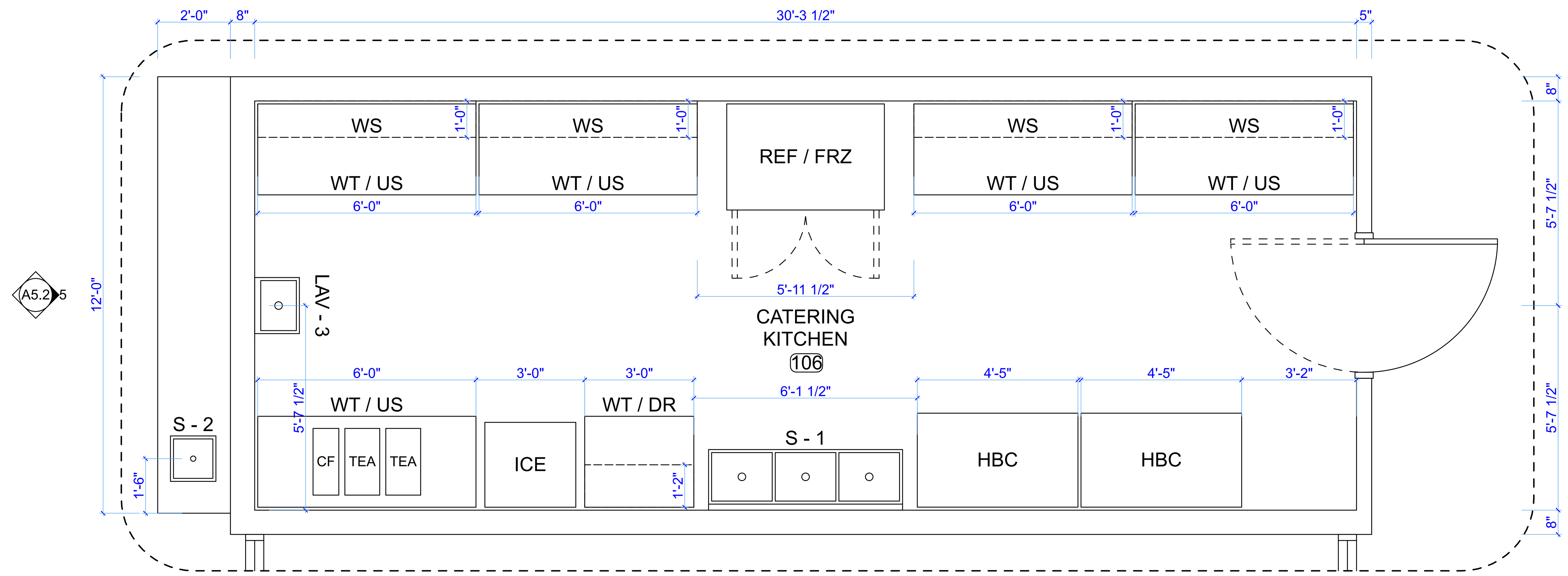
SHEET TITLE
A1.2

CATERING KITCHEN TAGS

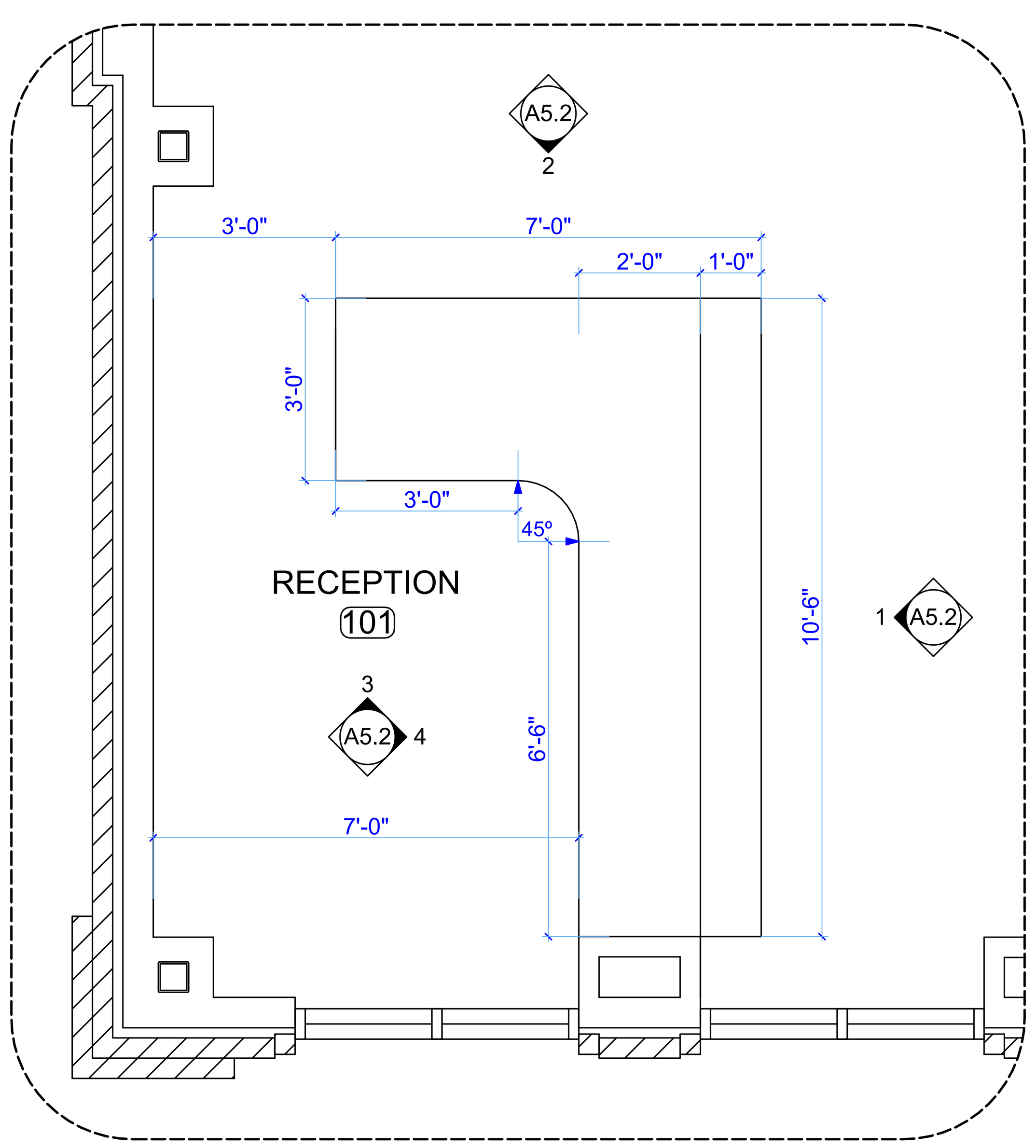
TAG	EQUIPMENT	MANUFACTURER	MODEL NUMBER	PROVISION
REF / FRZ	DUAL TEMPERATURE REACH - IN REFRIGERATOR / FREEZER	VICTORY	RFS - 2D - S1	OWNER PROVIDED, CONTRACTOR INSTALLED
HBC	HEATED BANQUET CABINET	METRO	MBQ - 144	OWNER PROVIDED, CONTRACTOR INSTALLED
ICE	ICE MACHINE	MANITOWOC	UY - 0310A	OWNER PROVIDED, CONTRACTOR INSTALLED
CF	COFFEE BREWER	BUNN	AXIOM - DV - 3 RFID	OWNER PROVIDED, CONTRACTOR INSTALLED
TEA	TEA BREWER	BUNN	TB3Q	OWNER PROVIDED, CONTRACTOR INSTALLED
WT / US	WORK TABLE WITH UNDER SHELF	EAGLE GROUP	T3072B	CONTRACTOR PROVIDED AND INSTALLED
WT / DR	WORK TABLE WITH DRYING RACK	EAGLE GROUP	T3036EBW - 2	CONTRACTOR PROVIDED AND INSTALLED
WS	WALL SHELF	EAGLE GROUP	WS1272 - 16 / 3	CONTRACTOR PROVIDED AND INSTALLED
PLUMBING FIXTURES - COORDINATE WITH PLUMBING DRAWINGS: PLUMBING FIXTURE SCHEDULE				
LAV - 3	HAND WASH LAVATORY	EAGLE	HSA - 10 - FTWS - LRS	CONTRACTOR PROVIDED AND INSTALLED
S - 1	TRIPLE POT / DISH SINK	ADVANCE TABCO	T9 - 3 - 54 - X	CONTRACTOR PROVIDED AND INSTALLED
S - 2	BAR SINK	KOHLER	K - 5287	CONTRACTOR PROVIDED AND INSTALLED



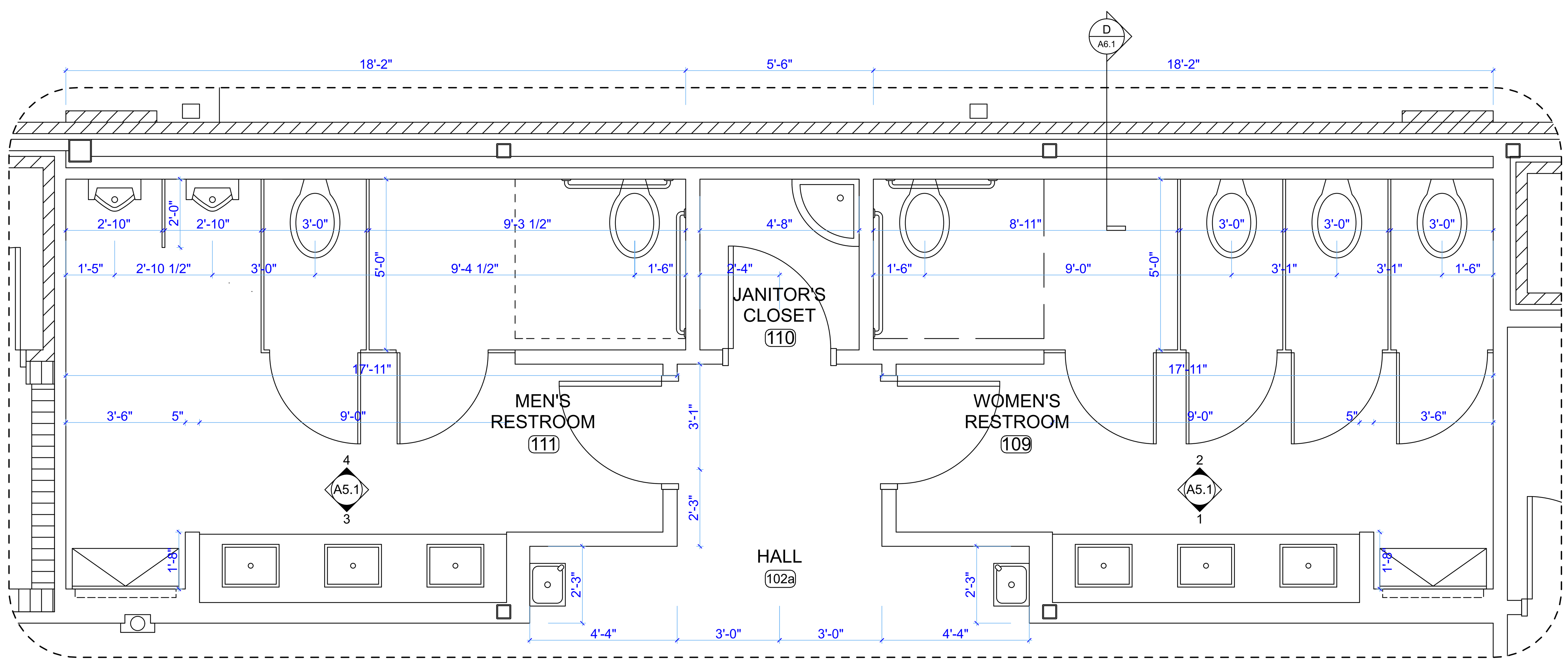
4 ENLARGED FLOOR PLAN, EXTERIOR RESTROOMS
SCALE: 1/2" = 1'-0"



3 ENLARGED FLOOR PLAN, CATERING KITCHEN
SCALE: 1/2" = 1'-0"



2 ENLARGED FLOOR PLAN, RECEPTION
SCALE: 1/2" = 1'-0"



1 ENLARGED FLOOR PLAN, MEN'S AND WOMEN'S RESTROOMS
SCALE: 1/2" = 1'-0"

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ENLARGED PLANS

SHEET TITLE
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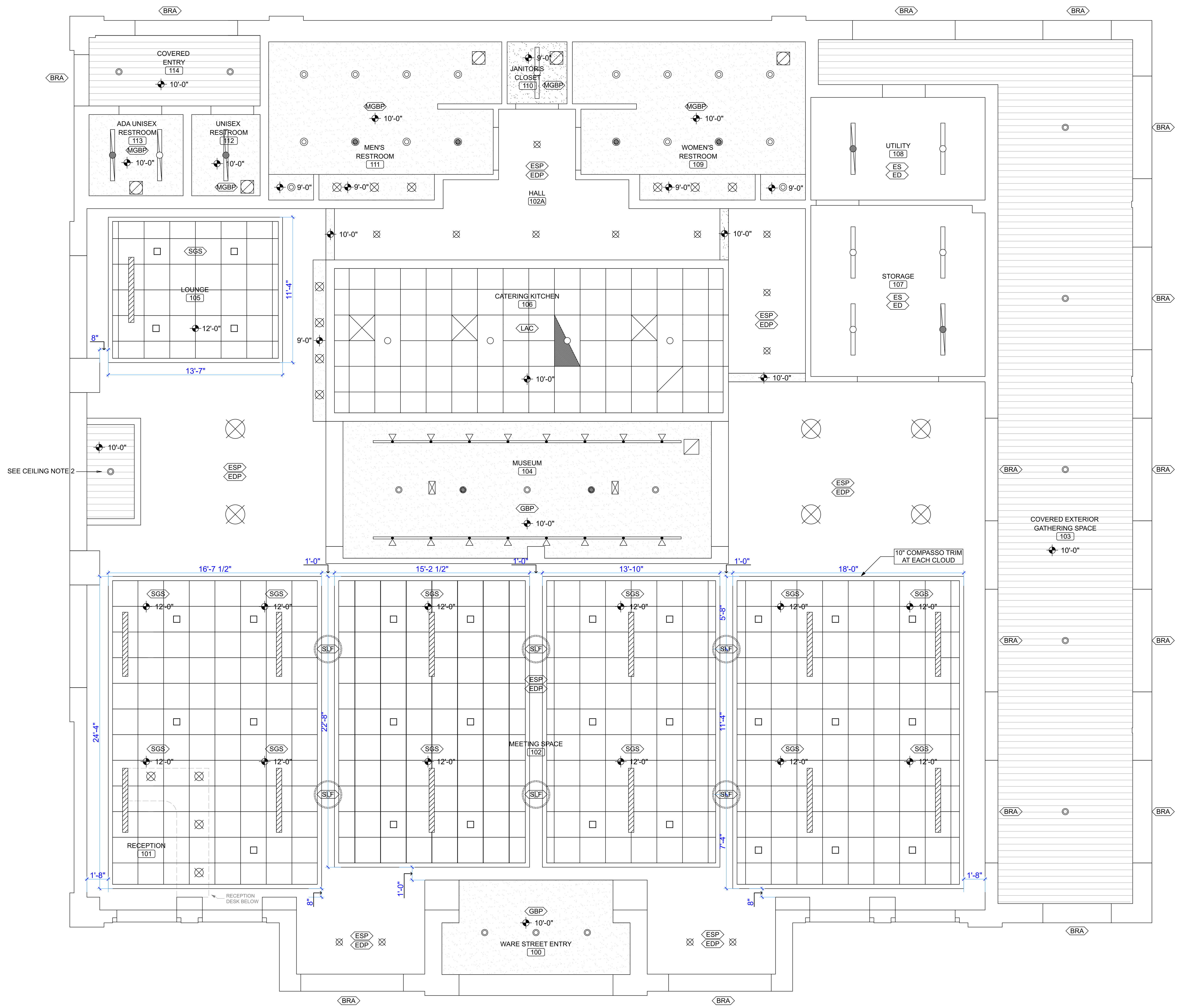

1 REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
	2'x2' LAY-IN VINYL COATED CEILING
	GYPSUM BOARD (SUSPENDED AS REQUIRED)
	LINEAR SOLID WOOD PANEL CLOUDS (SUSPENDED AS REQUIRED)
	HARDIE BEAD BOARD, PAINTED BENJAMIN MOORE: BIRD'S EGG, 2051-60 (SUSPENDED AS REQUIRED)
	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	SUSPENDED LIGHT FIXTURE (SEE ELECTRICAL)
	SUSPENDED LIGHT FIXTURE, UNO (SEE ELECTRICAL)
	RECESSED ROUND LIGHT FIXTURE: INTENSE LIGHTING, 4" LED DOWNLIGHT, SS4G2-3000-358/IC430HZ-SFW
	RECESSED SQAURE LIGHT FIXTURE: GRAVITY LIGHTING, 6" LED SQUARE DOWNLIGHT, IHOL-6DS, BLACK REFLECTOR
	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)
	LINEAR SUPPLY AIR GRILLE SEE MECHANICAL
ESP	EXPOSED STRUCTURE - PAINT
ES	EXPOSED STRUCTURE - NO PAINT
NWR	NO WORK REQUIRED
BRA	BRICK ROWLOCK ARCH - SEE STRUCTURAL
GBF	GYPSUM BOARD FURRING
DS	DISAPPERING STAIR
EDP	EXPOSED DUCTWORK - PAINT
ED	EXPOSED DUCTWORK - NO PAINT
GBP	GYPSUM BOARD - PAINT
GB	GYPSUM BOARD - NO PAINT
MGBP	MOISTURE RESISTANT GYPSUM BOARD - PAINT
SLF	SPECIALTY LIGHT FIXTURE: CURREY AND COMPANY, SIMPLICITY CHANDELIER, NO. 9256
SGS	SPECIATLY SUSPENDED GRID SYSTEM "CLOUD", SEE SPECIFICATION 09 51 23, PAINT BLACK
LAC	LAY-IN ACOUSTICAL CEILING

REFLECTED CEILING PLAN NOTES

1. AREAS WITH CLOUDS OR WITHOUT CEILINGS ARE TO HAVE ALL VISIBLE SURFACES, INCLUDING STRUCTURE AND DUCTWORK, PAINTED:
   EXCLUDING STORAGE AND UTILITY ROOMS
   PAINT TO BE DETERMINED BY ARCHITECT
   PAINT TO BE 12' 0" AFF

2. AT RECESSED STOREFRONT ENTRY, INSTALL GYPSUM BOARD METAL STUD WALL ABOVE STOREFRONT AND EXTEND TO DECK, SEE DRAWING B / A6.2

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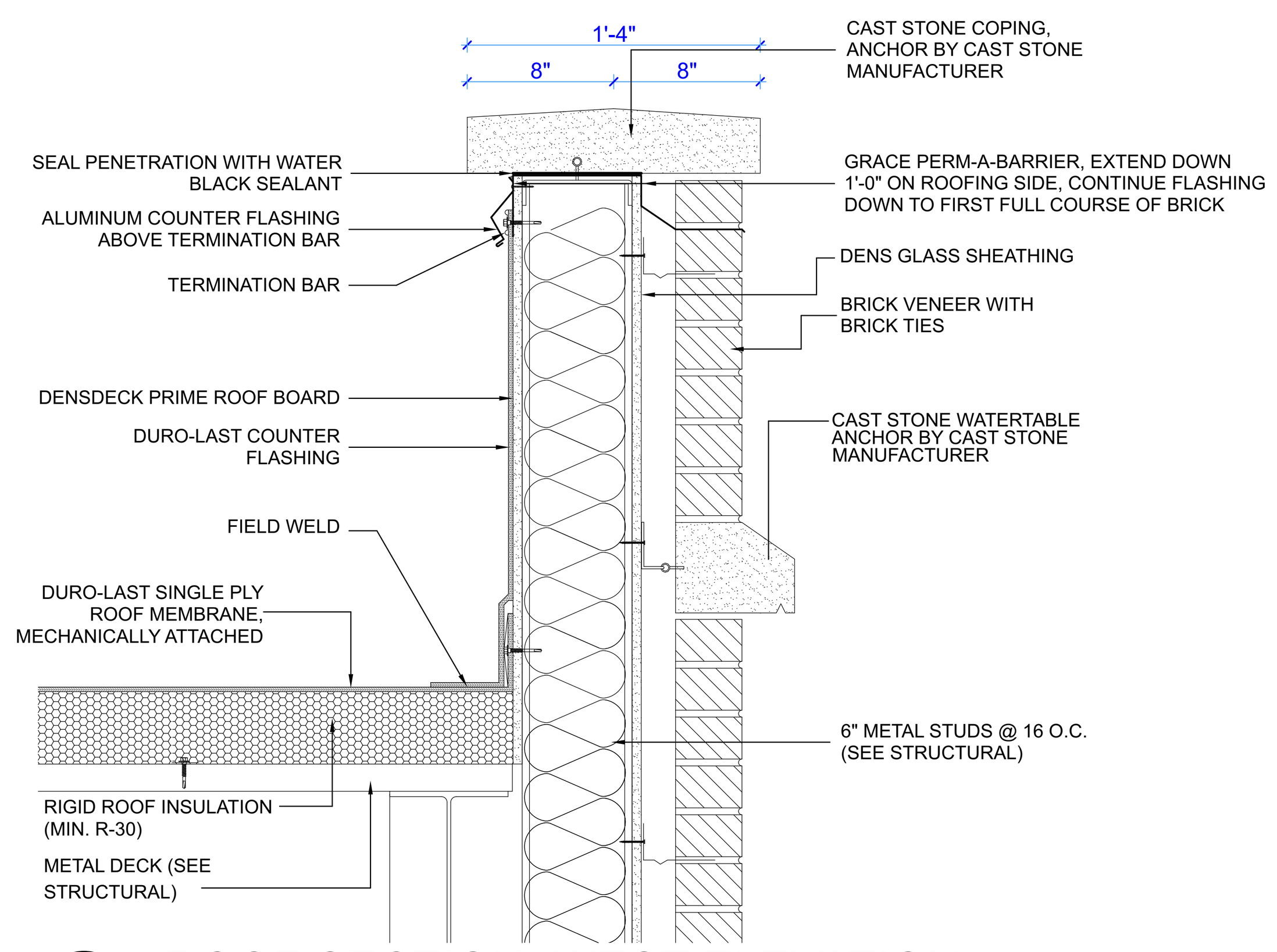
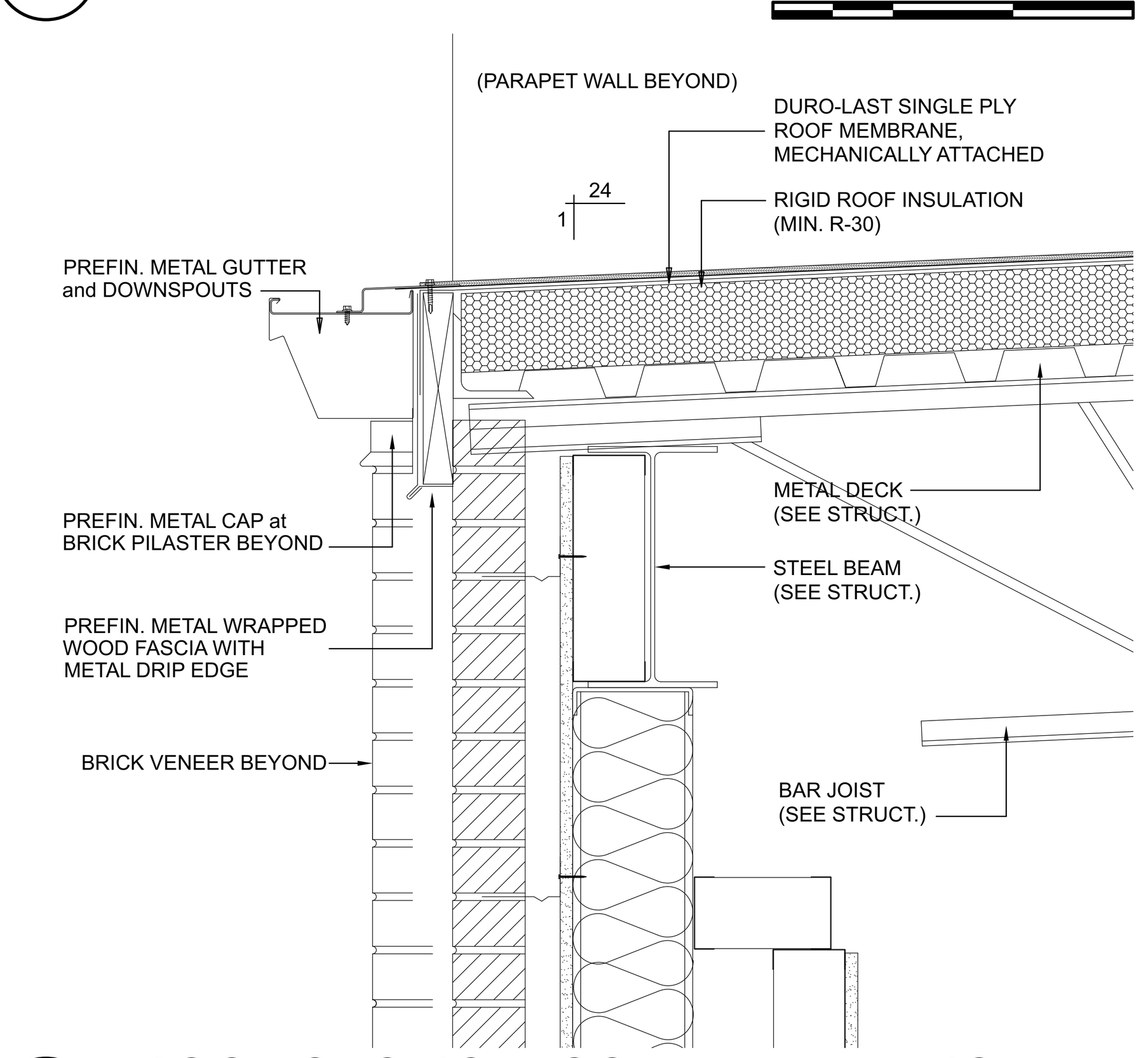
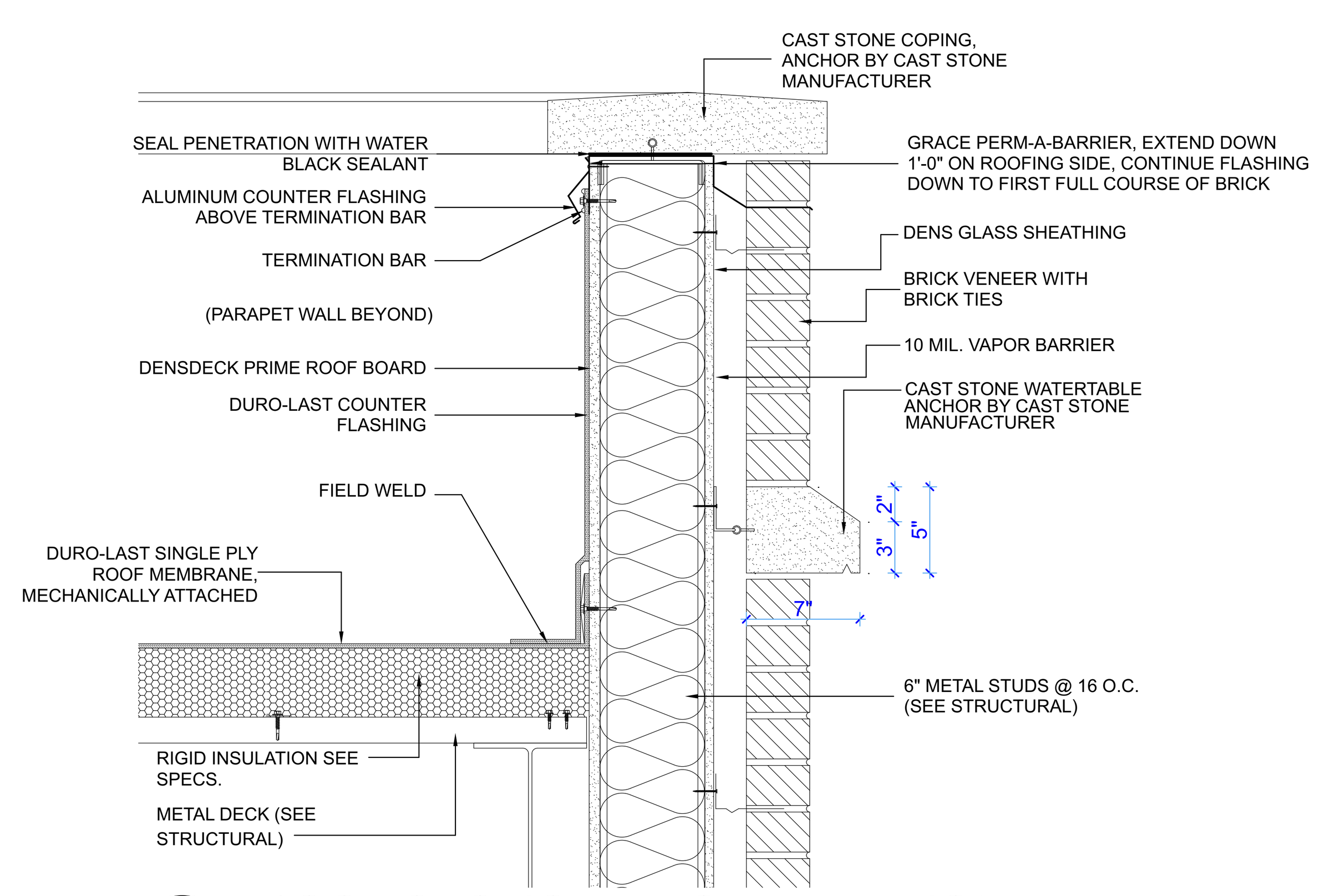


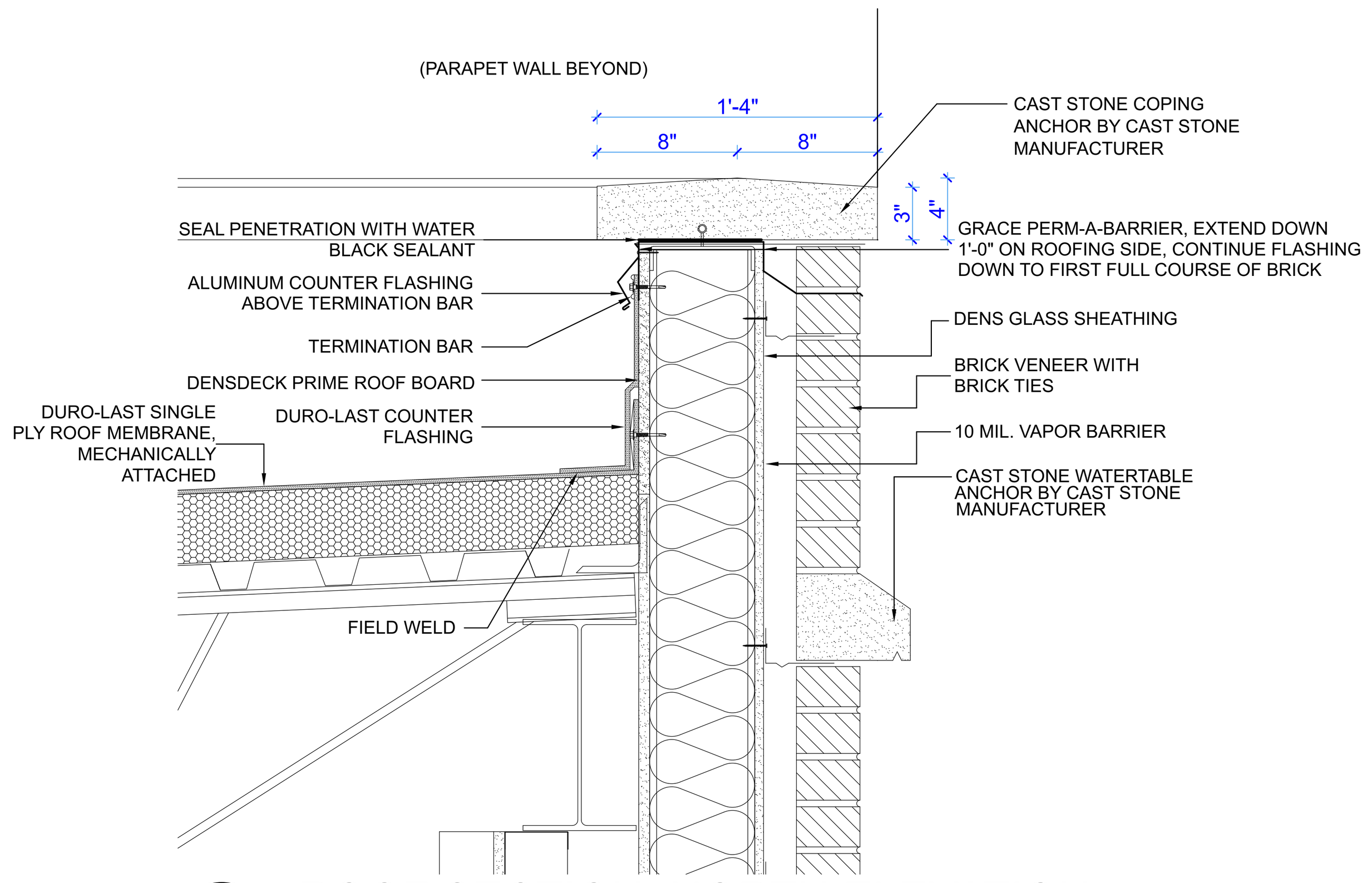
D ROOF SECTION, WEST ELEVATION
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



C ROOF SECTION, SOUTH ELEVATION
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



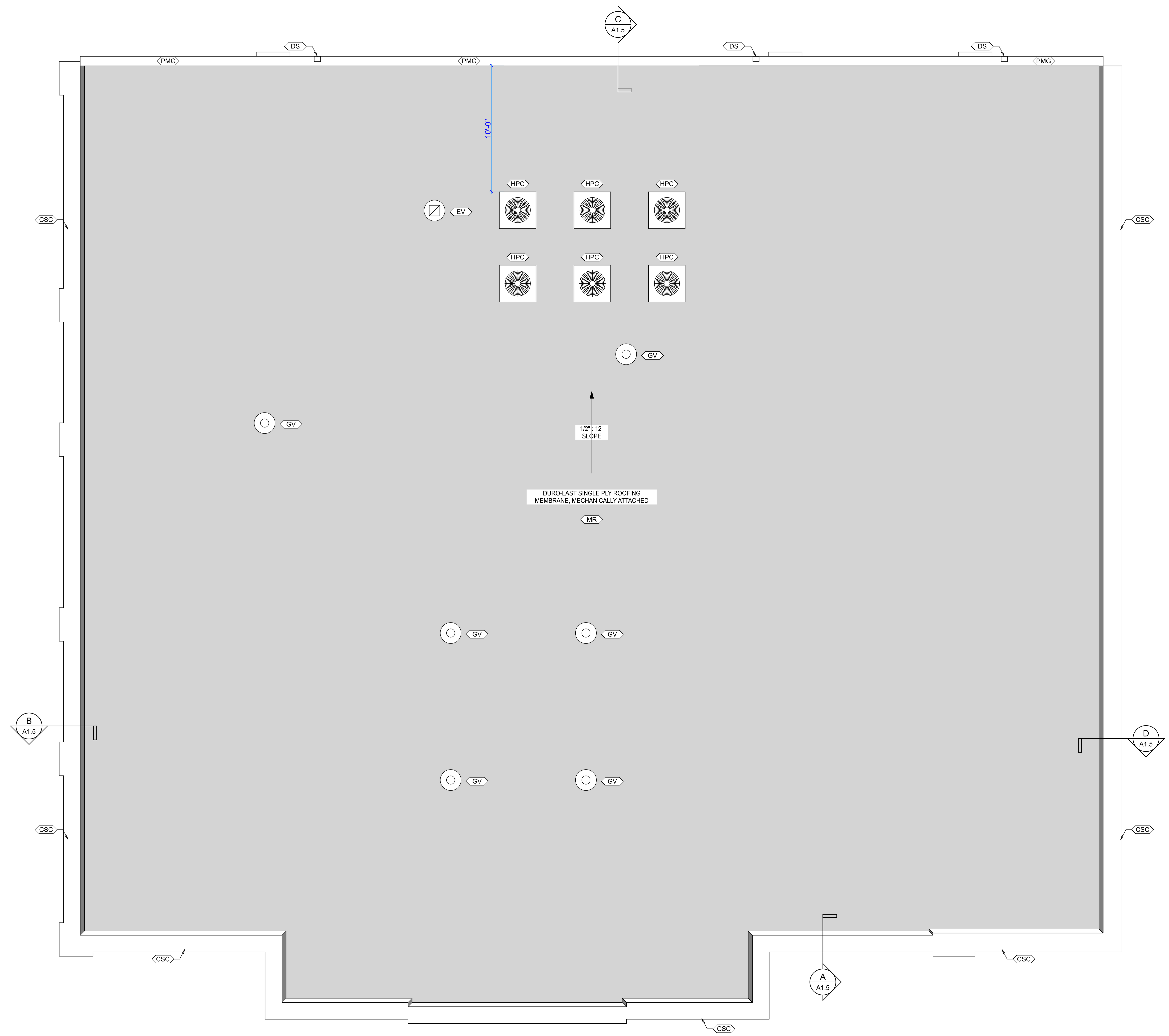
B ROOF SECTION, EAST ELEVATION
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



A ROOF SECTION, NORTH ELEVATION
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
MR	DURO-LAST SINGLE PLY MEMBRANE ROOF, MECHANICALLY ATTACHED
C / A1.5	SECTION SYMBOL
PMG	PREFINISHED METAL GUTTER
CSC	CAST STONE - COPING
HPC	HEAT PUMP - CONDENSER
DS	PREFINISHED METAL DOWNSPOUT
EV	EXHAUST VENT
GV	GAS VENT



1 ROOF PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

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11/11/16

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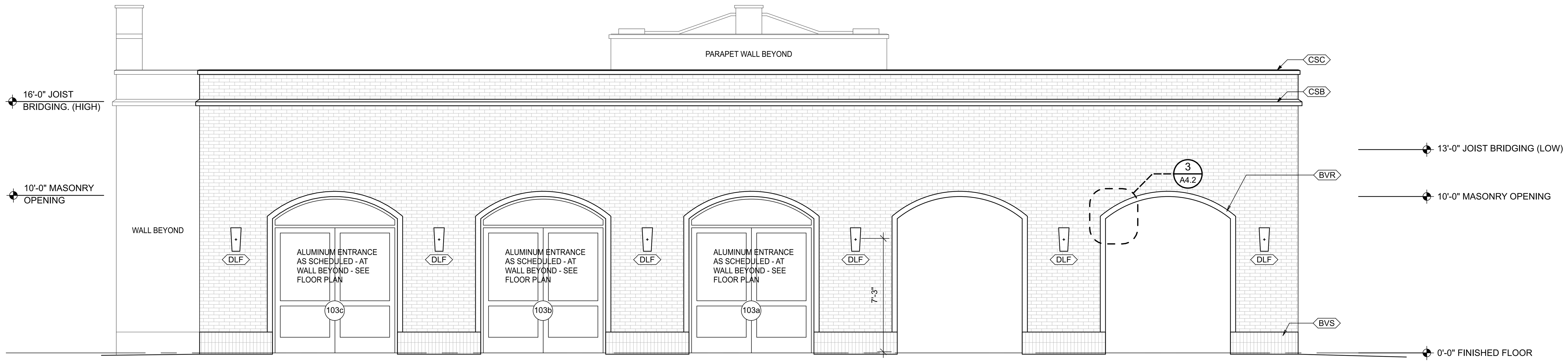
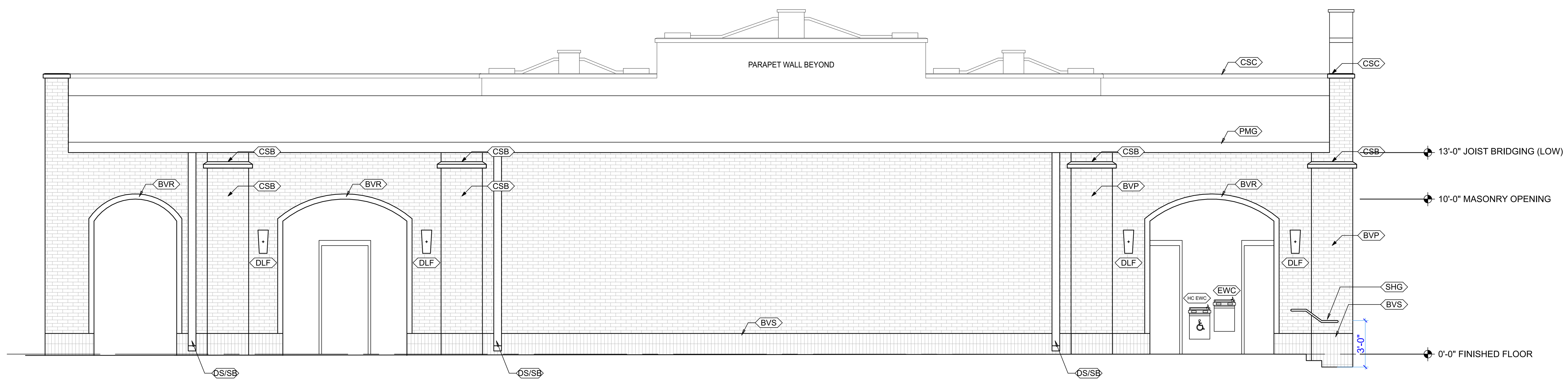
SHEET TITLE
ROOF PLAN

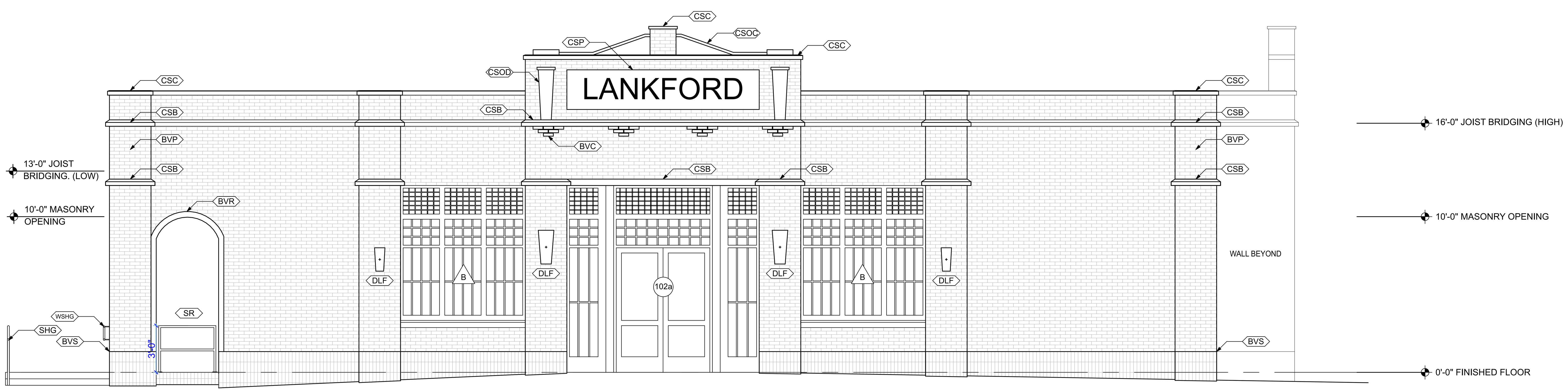
SHEET TITLE
A1.5



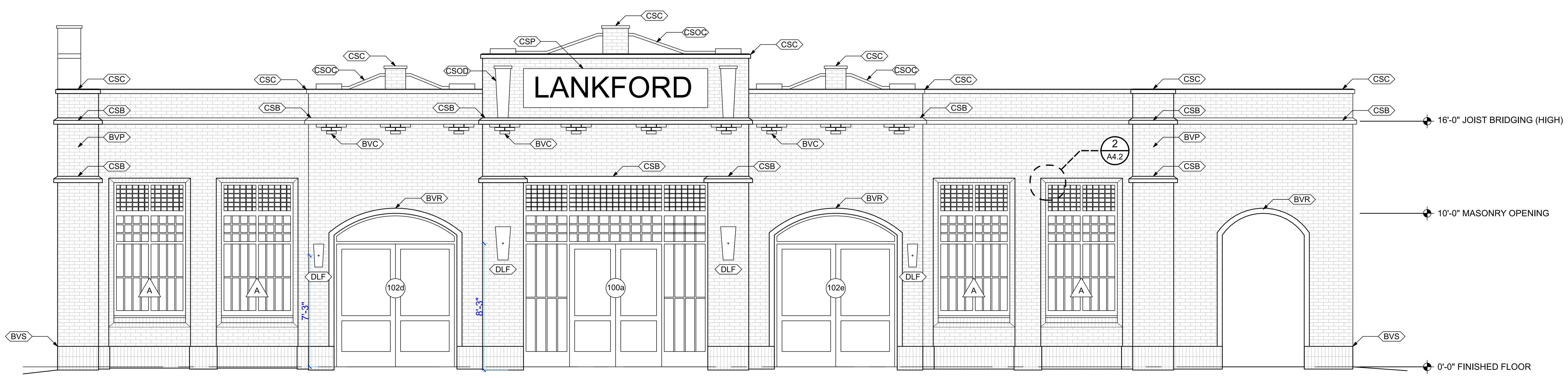
D WEST ELEVATION
SCALE: 1/4" = 1'-0"



C SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



B EAST ELEVATION
SCALE: 1/4" = 1'-0"



A NORTH ELEVATION
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
AX.X	BUILDING SECTION SYMBOL
L1	SCHEDULED LOUVER TYPES
DS	PREFINISHED METAL DOWNSPOUT
DS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT
CSOC	CAST STONE - ORNAMENTAL CAP
WSHG	WALL MOUNTED STEEL HANDRAIL - PAINT
SHG	STEEL HANDRAIL - PAINT
SR	STEEL RAILING - PAINT
CSOD	CAST STONE - ORNAMENTAL DETAILING
BVC	BRICK VENEER - CORBELNG
BVP	BRICK VENEER - PILASTER - SEE PLAN
BVR	BRICK VENEER - ROWLOCK
EWC	ELECTRIC WATER COOLER (SEE PLUMBING)
DLF	DECORATIVE LIGHT FIXTURE (SEE ELECTRICAL)
CSB	CAST STONE - BANDING
CSC	CAST STONE - COPING
CSP	CAST STONE PANEL WITH 1" INCISED LETTERING
BVS	BRICK VENEER - SOLDIER COURSE
HC EWC	ADA COMPLIANT ELECTRIC WATER COOLER (SEE PLUMBING)
PMG	PREFINISHED METAL GUTTER

ELEVATION NOTES

1. LOCATION OF EXPANSION AND CONTROL JOINTS WILL BE COORDINATED WITH THE GENERAL CONTRACTOR
2. 10 MIL. VAPOR BARRIER IS TO BE INSTALLED THROUGHOUT STRUCTURE
3. BRICK IS TO BE OF THE FOLLOWING SPECIFICATION:

   MANUFACTURER: GENERAL SHALE
   TYPE: LIGHTWEIGHT MODULAR BRICK C652, 6024006121
   FINISH: MILLBROOK
   MORTAR: TYPE S, COLOR TBD
4. BRICK ALTERNATE IS TO BE OF THE FOLLOWING SPECIFICATION:

   MANUFACTURER: GENERAL SHALE
   TYPE: LIGHTWEIGHT MODULAR BRICK C652, 6040006422
   FINISH: PRESERVATION RED
   MORTAR: TYPE S, COLOR TBD
5. MOCK-UP PANELS OF THE SPECIFIED BRICK, BRICK ALTERNATE, AND MORTAR COLORS WILL BE REQUIRED PRIOR TO FINAL BRICK CHOICE INSTALLATION

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EXTERIOR ELEVATIONS

SHEET TITLE
A2.1

BUILDING SECTION NOTES

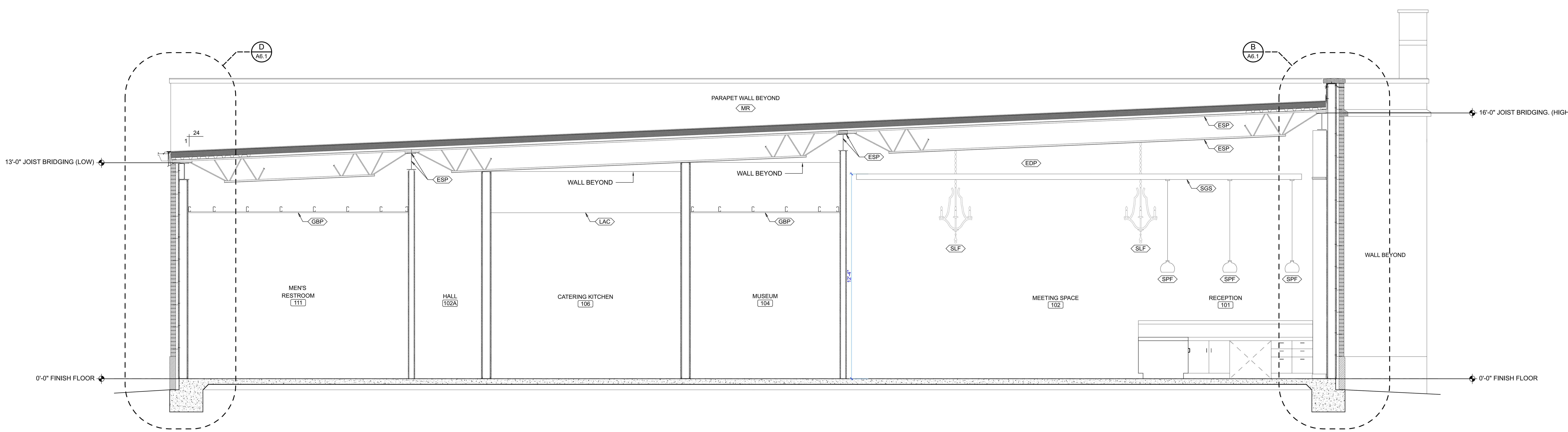
1. AREAS WITH CLOUDS OR WITHOUT CEILINGS ARE TO HAVE ALL VISIBLE SURFACES, INCLUDING STRUCTURE AND DUCTWORK, PAINTED:
    - EXCLUDING STORAGE AND UTILITY ROOMS
    - PAINT TO BE DETERMINED BY ARCHITECT
    - PAINT TO BE 12' 0" AFF

2. AT AREA WITH CEILING, INSTALL SOUND ATTENUATION BATTS IN STUD PARTITIONS FULL HEIGHT

3. AT EXTERIOR WALLS AND INTERIOR PARTITIONS, EXTEND METAL STUDS AND GYPSUM BOARD TO ROOF STRUCTURE ABOVE (BEAMS, BAR JOISTS, OR METAL ROOF DECK)

BUILDING SECTION LEGEND

SYMBOL	DESCRIPTION
MR	DURO-LAST SINGLE PLY MEMBRANE ROOFING
GBP	GYPSUM BOARD - PAINT
LAC	LAY-IN ACOUSTICAL CEILING
EDP	EXPOSED DUCTWORK - PAINT
ESP	EXPOSED STRUCTURE - PAINT
SGS	SPECIALTY SUSPENDED GRID SYSTEM "CLOUD"
SLF	SPECIALTY LIGHT FIXTURE - SEE ELECTRICAL
SPF	SPECIALTY PENDANT FIXTURE - SEE ELECTRICAL



AA BUILDING SECTION

SCALE: 3/8" = 1'-0"

0 2' 4' 6'

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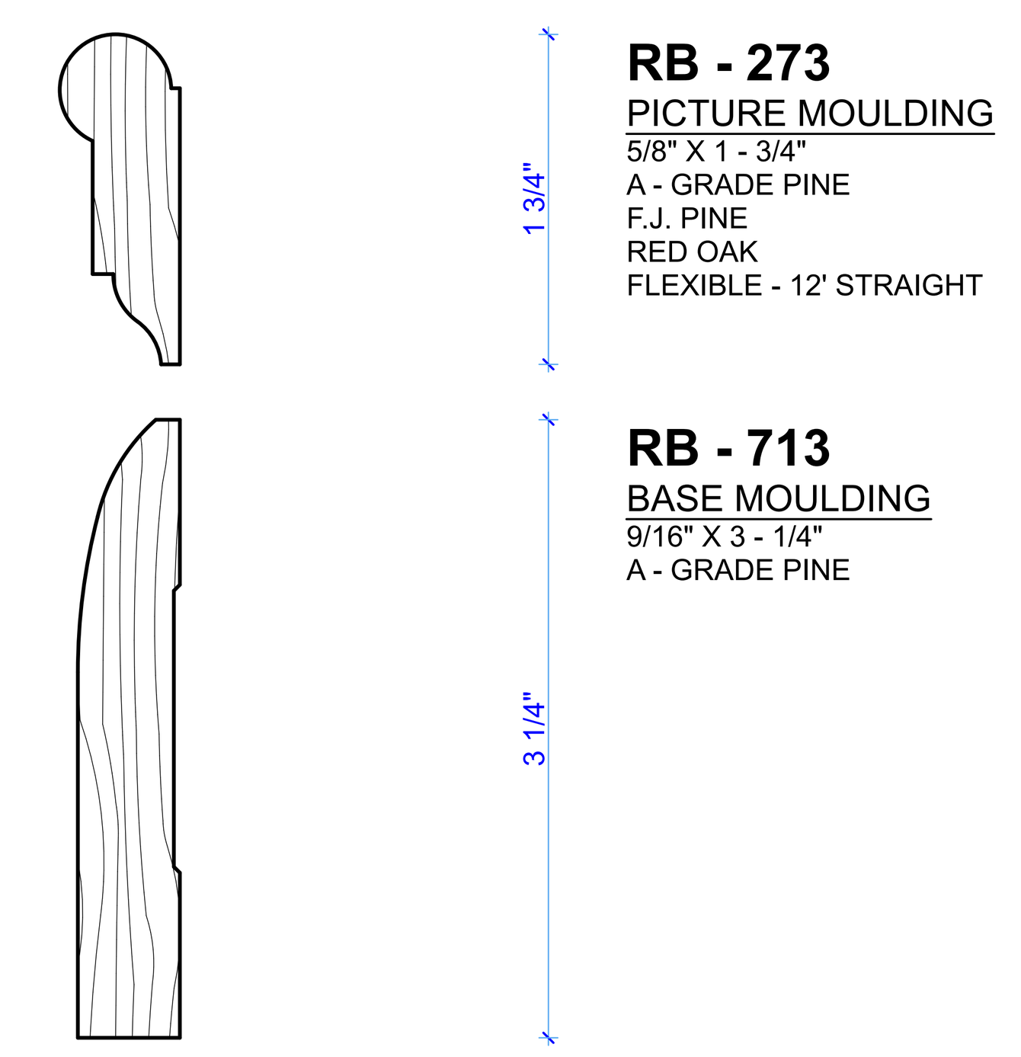
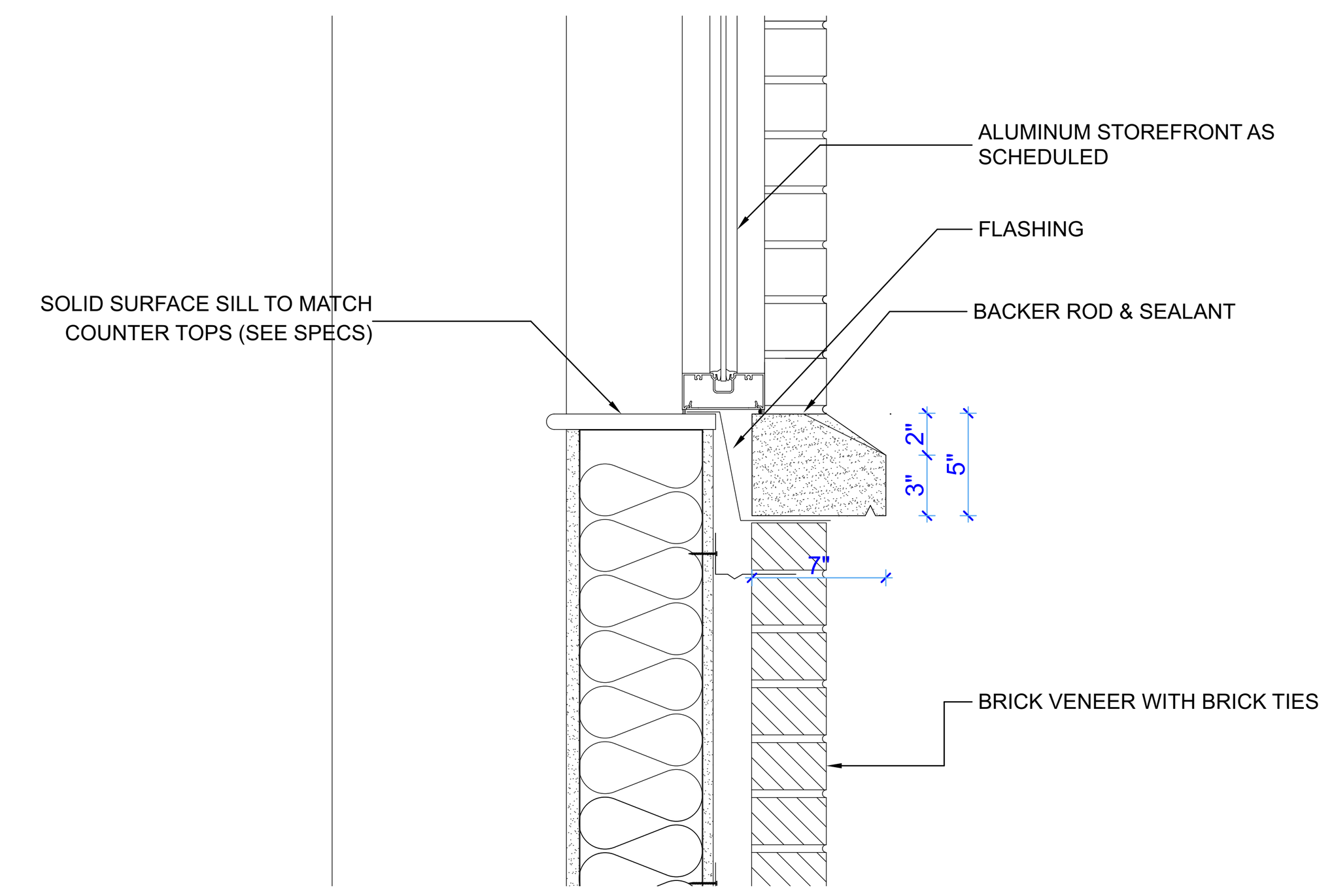
SHEET TITLE
BUILDING SECTION

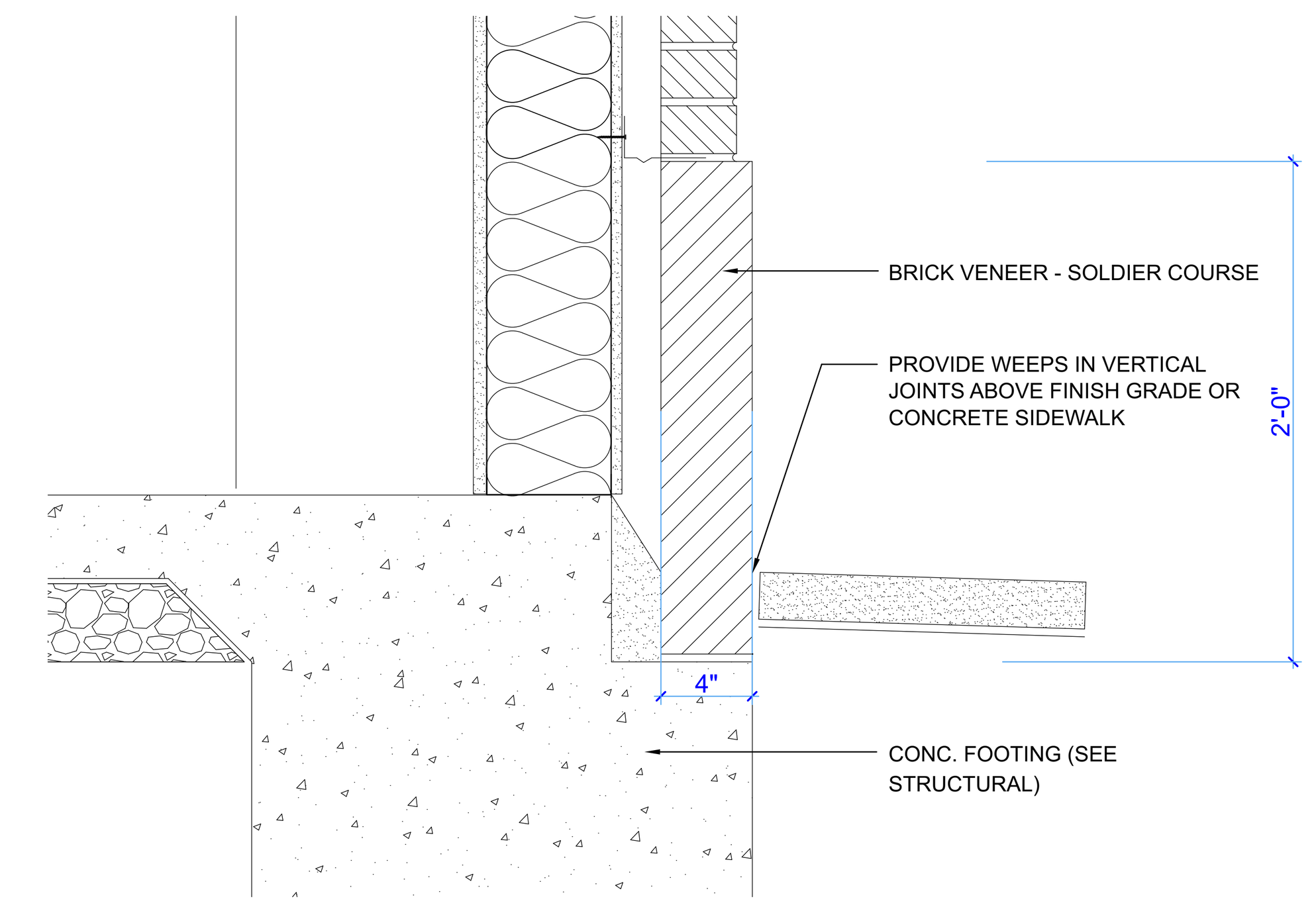
SHEET TITLE
A3.1



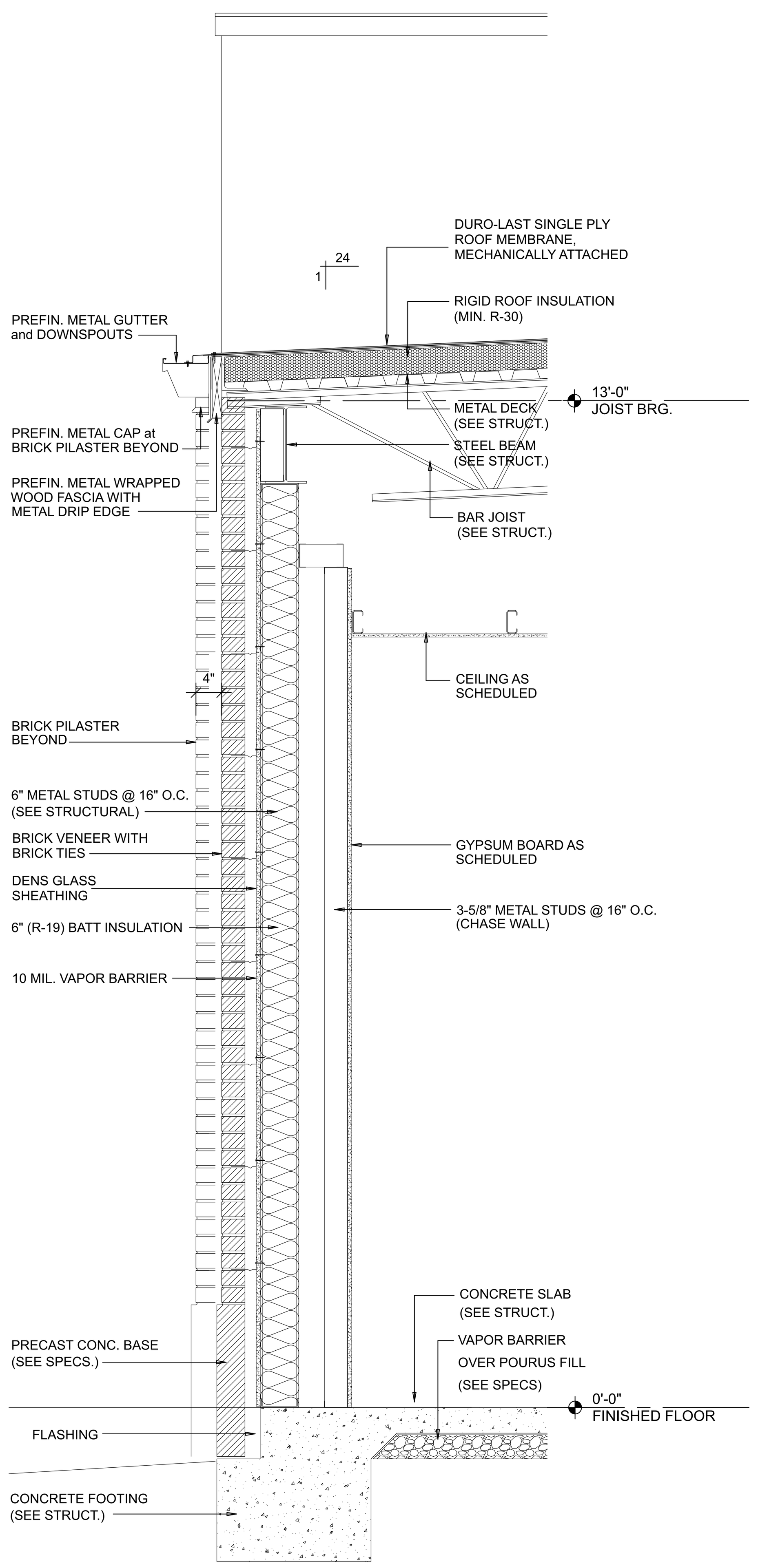
3 WOOD MOULDING PROFILES
SCALE: 1' = 1'-0"



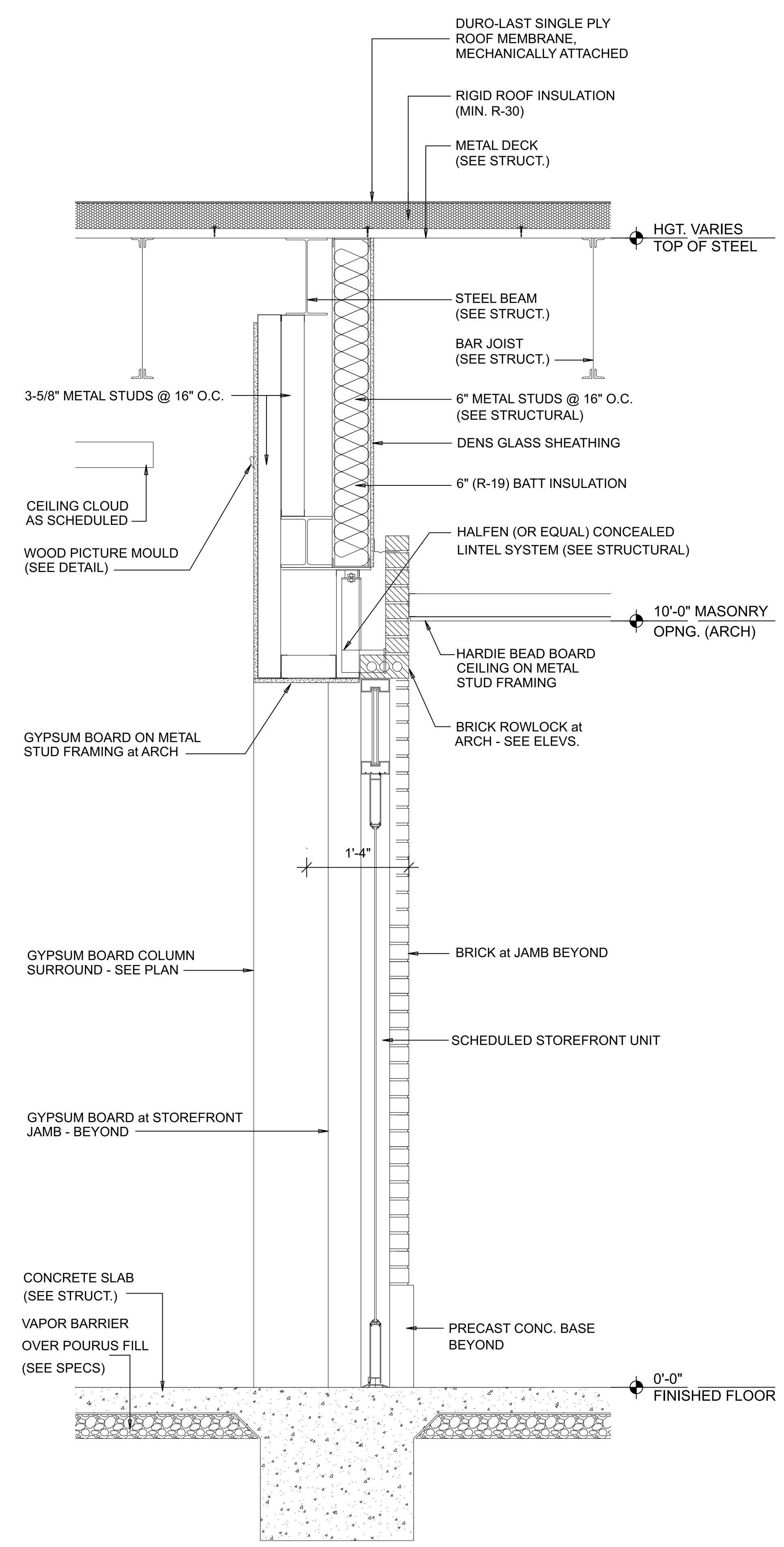
2 WALL / WINDOW DETAIL
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



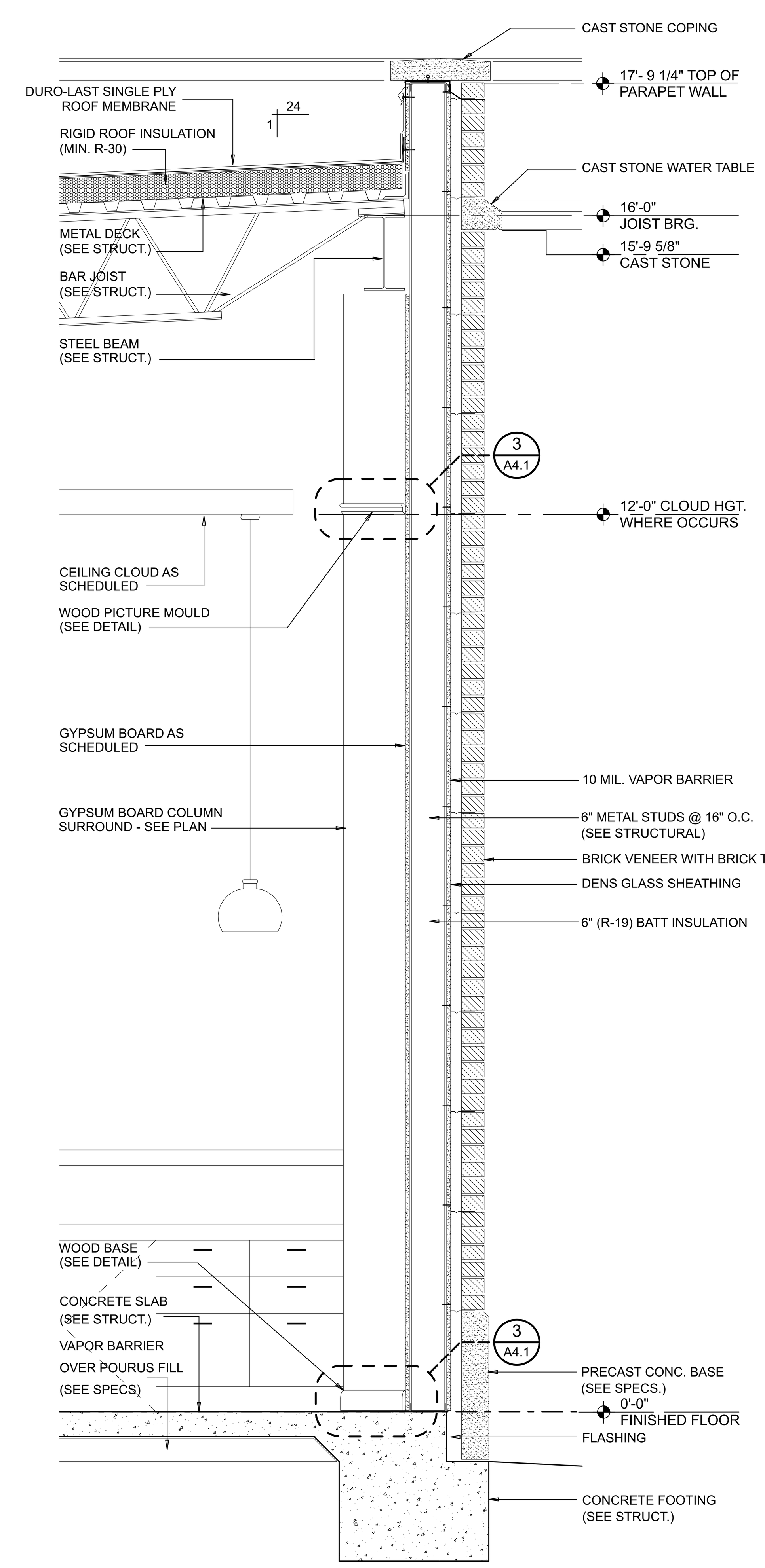
1 WALL / FOUNDATION DETAIL
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



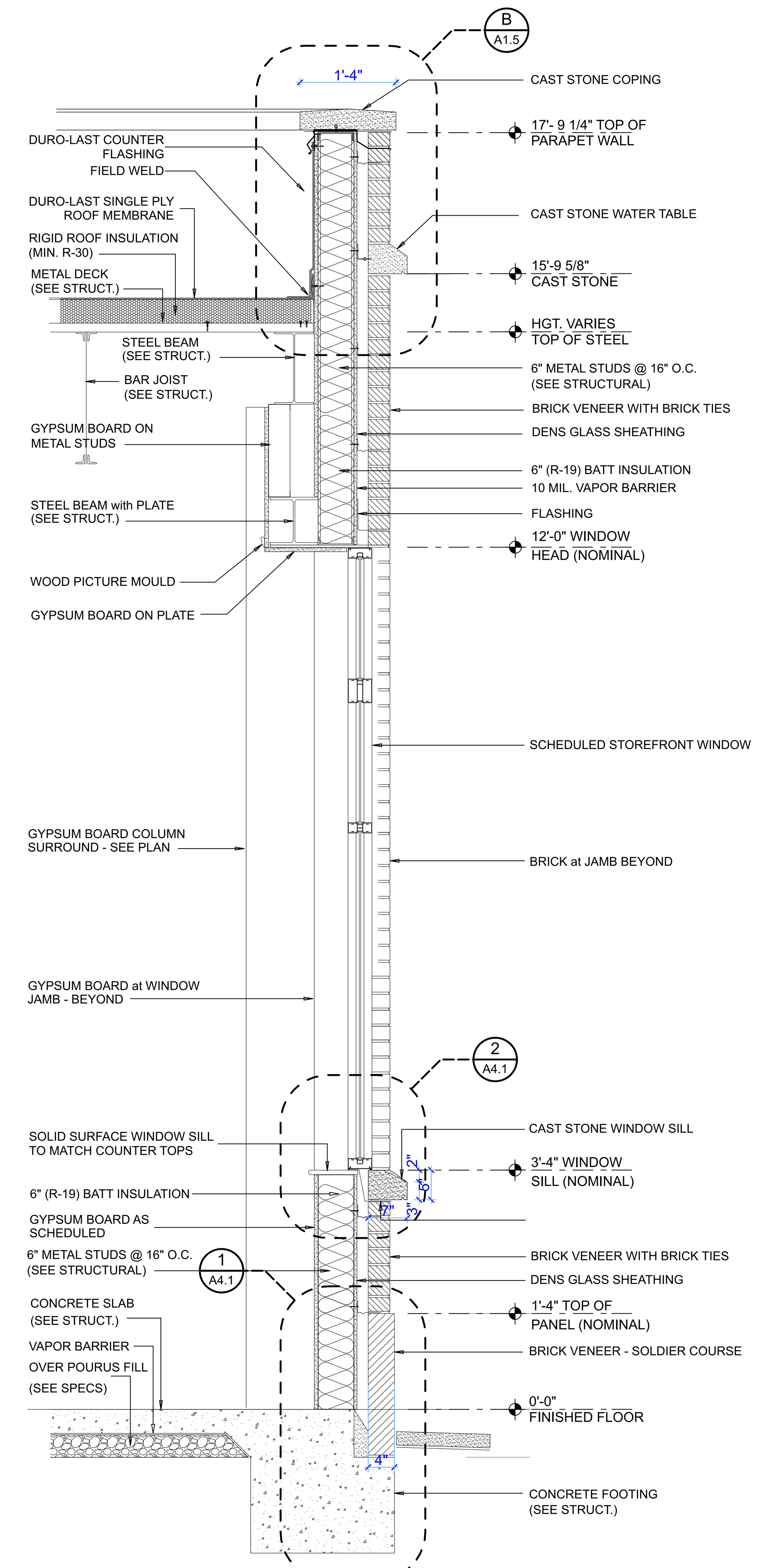
D WALL SECTIONS
SCALE: 3/4" = 1'-0"
0 1' 2' 3'



C WALL SECTION
SCALE: 3/4" = 1'-0"
0 1' 2' 3'



B WALL SECTION
SCALE: 3/4" = 1'-0"
0 1' 2' 3'



A WALL SECTION
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

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SHEET TITLE
WALL SECTIONS AND DETAILS

SHEET TITLE
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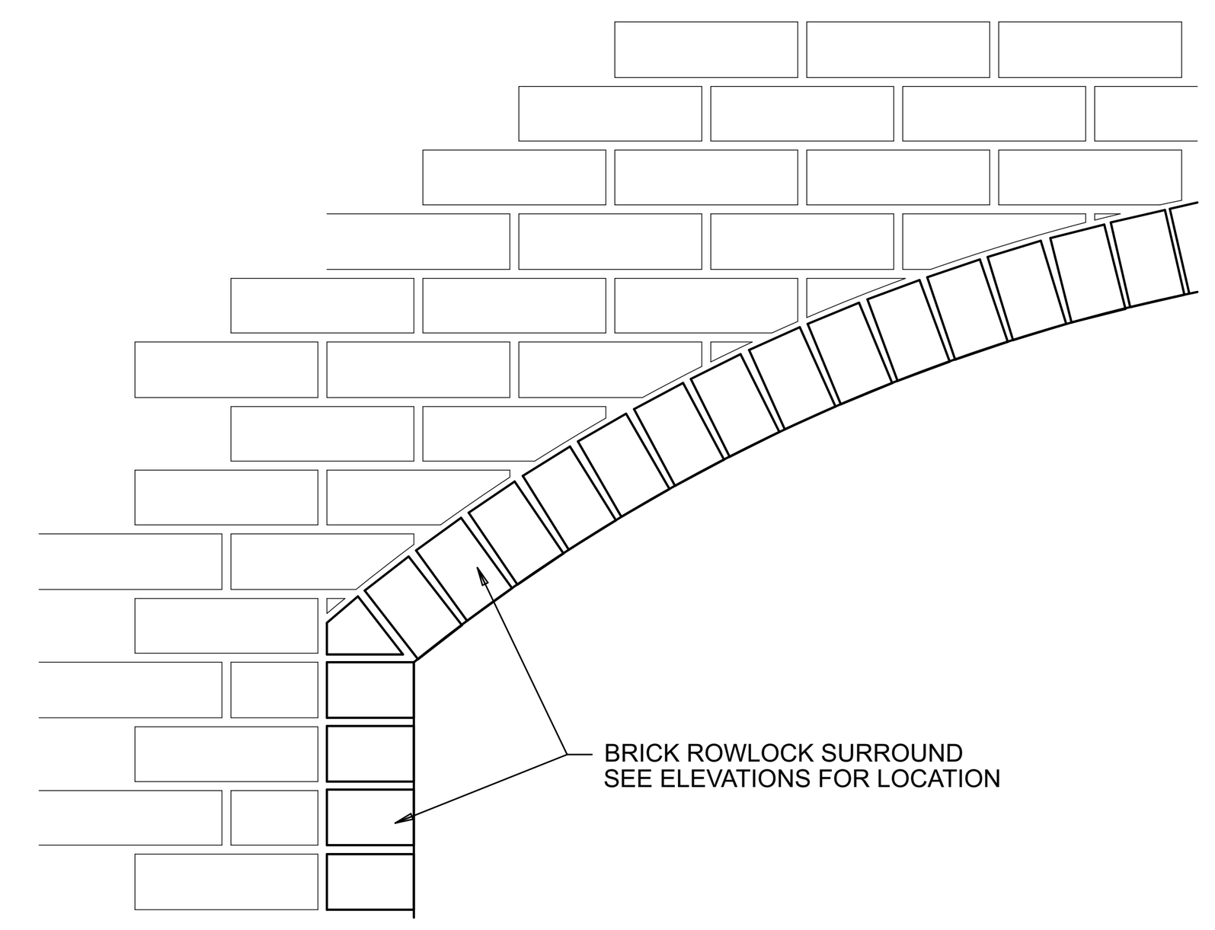
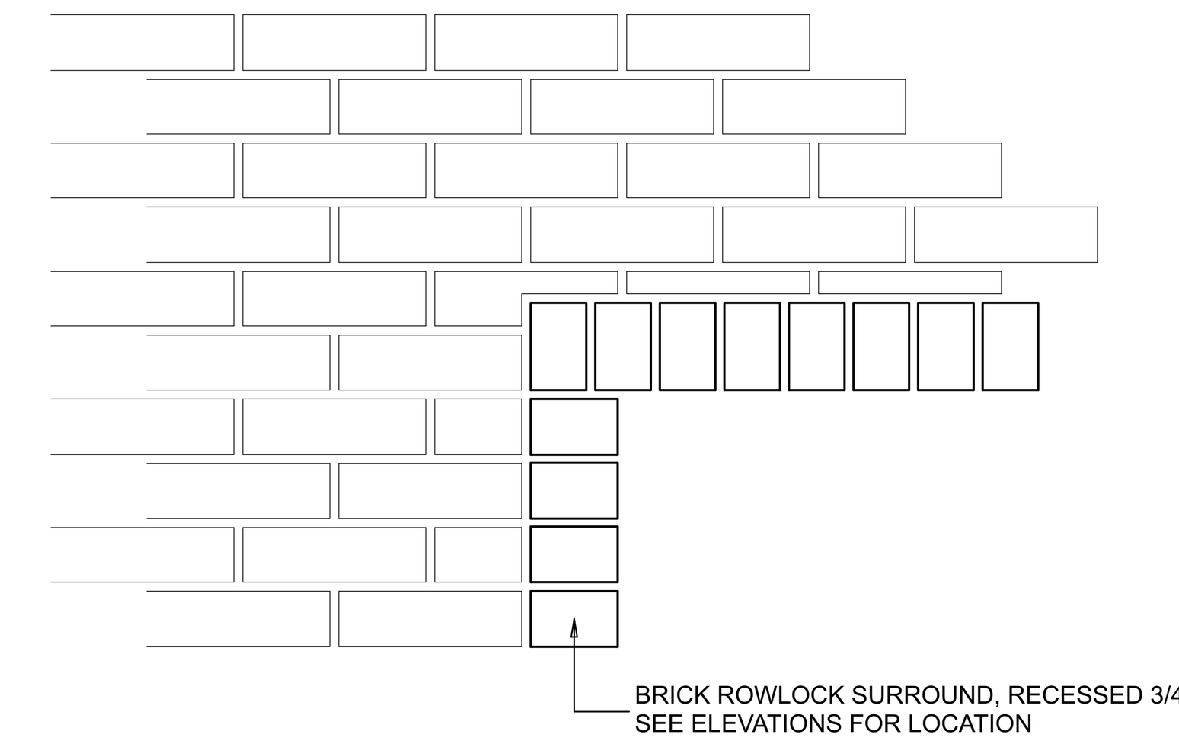
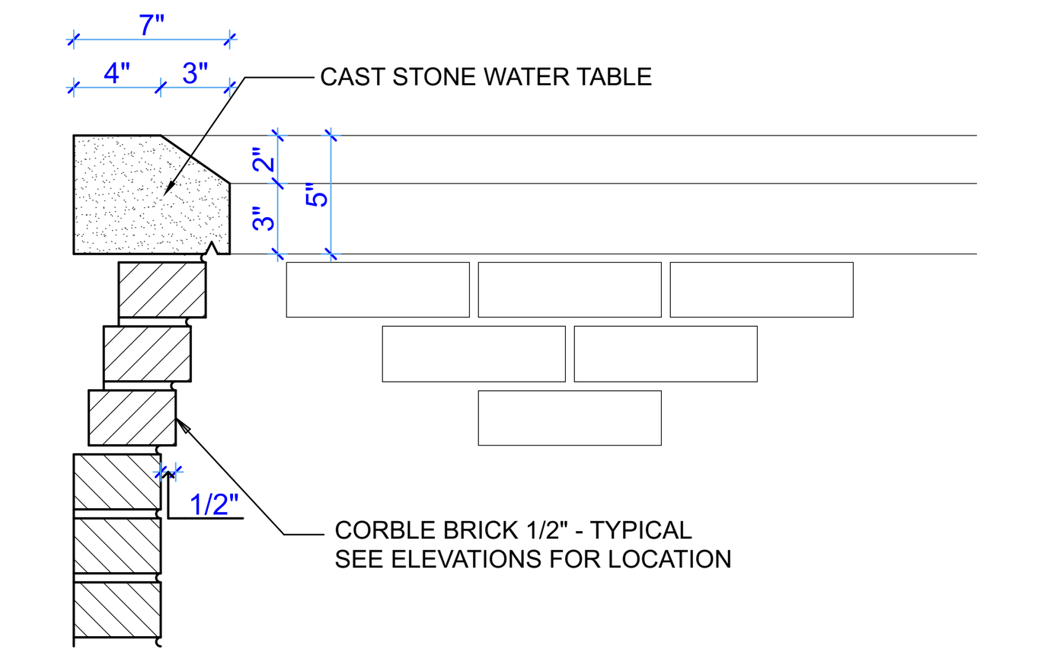


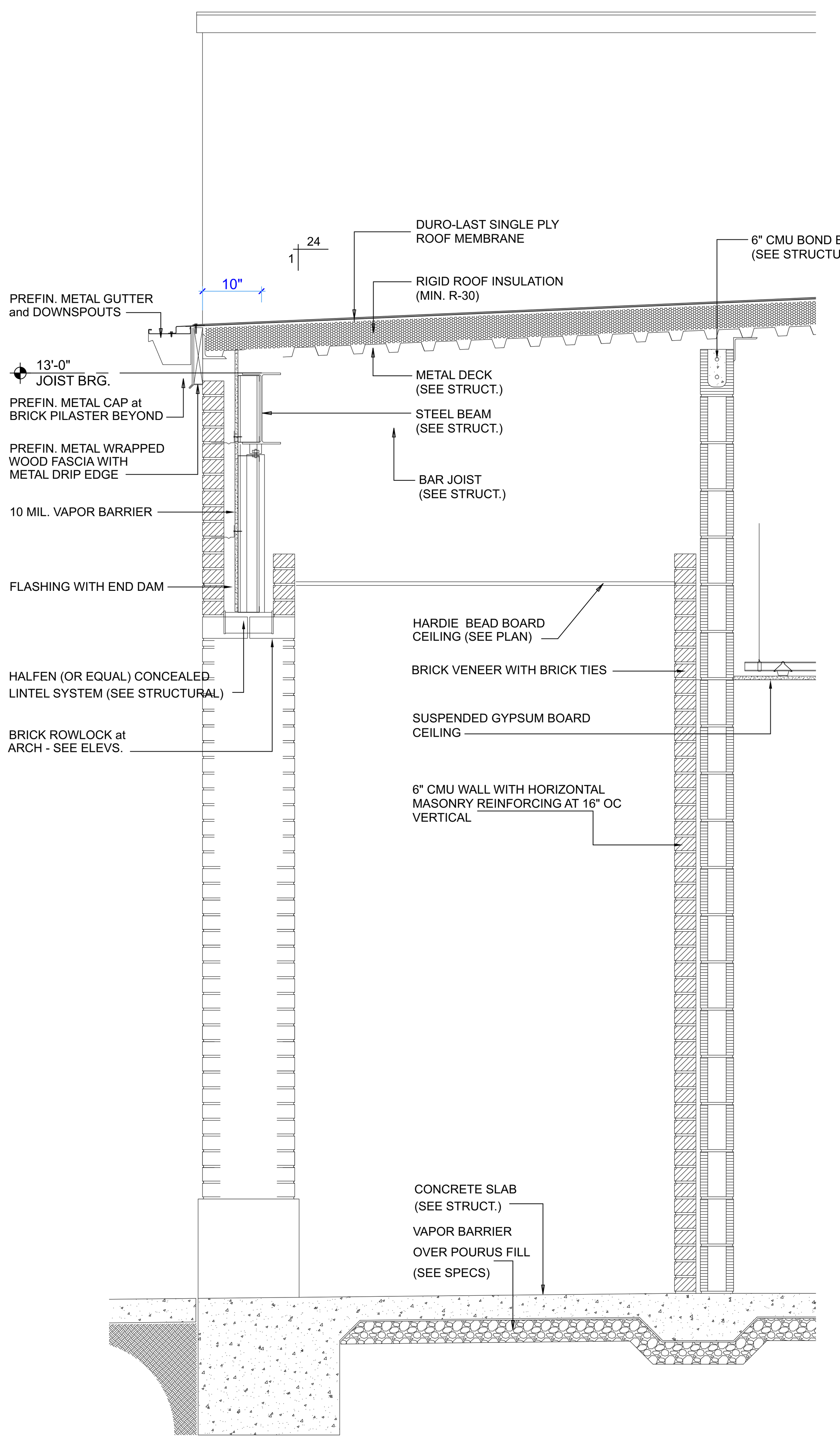
3 BRICK DETAIL
SCALE: 1 1/2"= 1'-0"



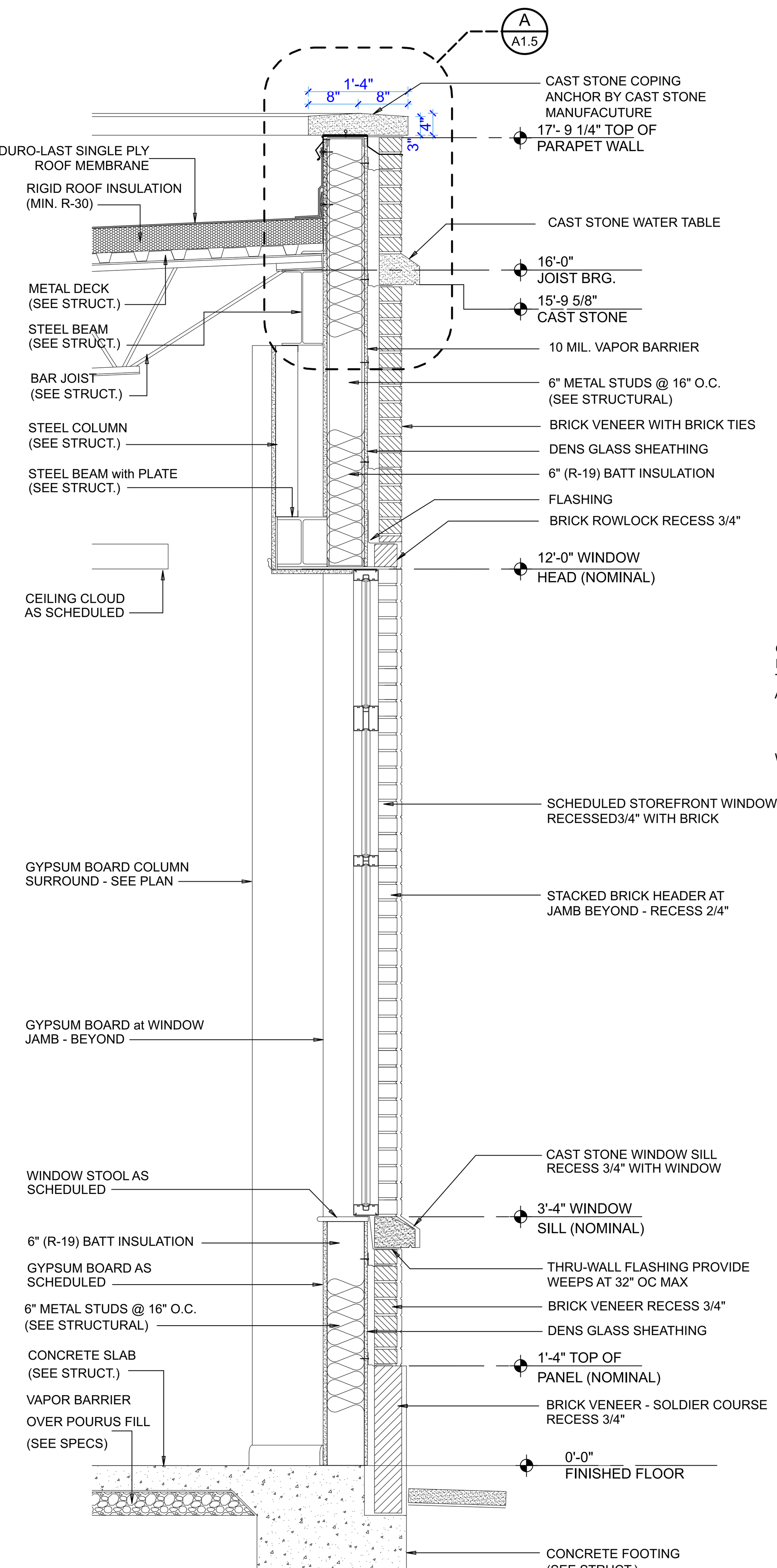
2 BRICK DETAIL
SCALE: 1 1/2"= 1'-0"



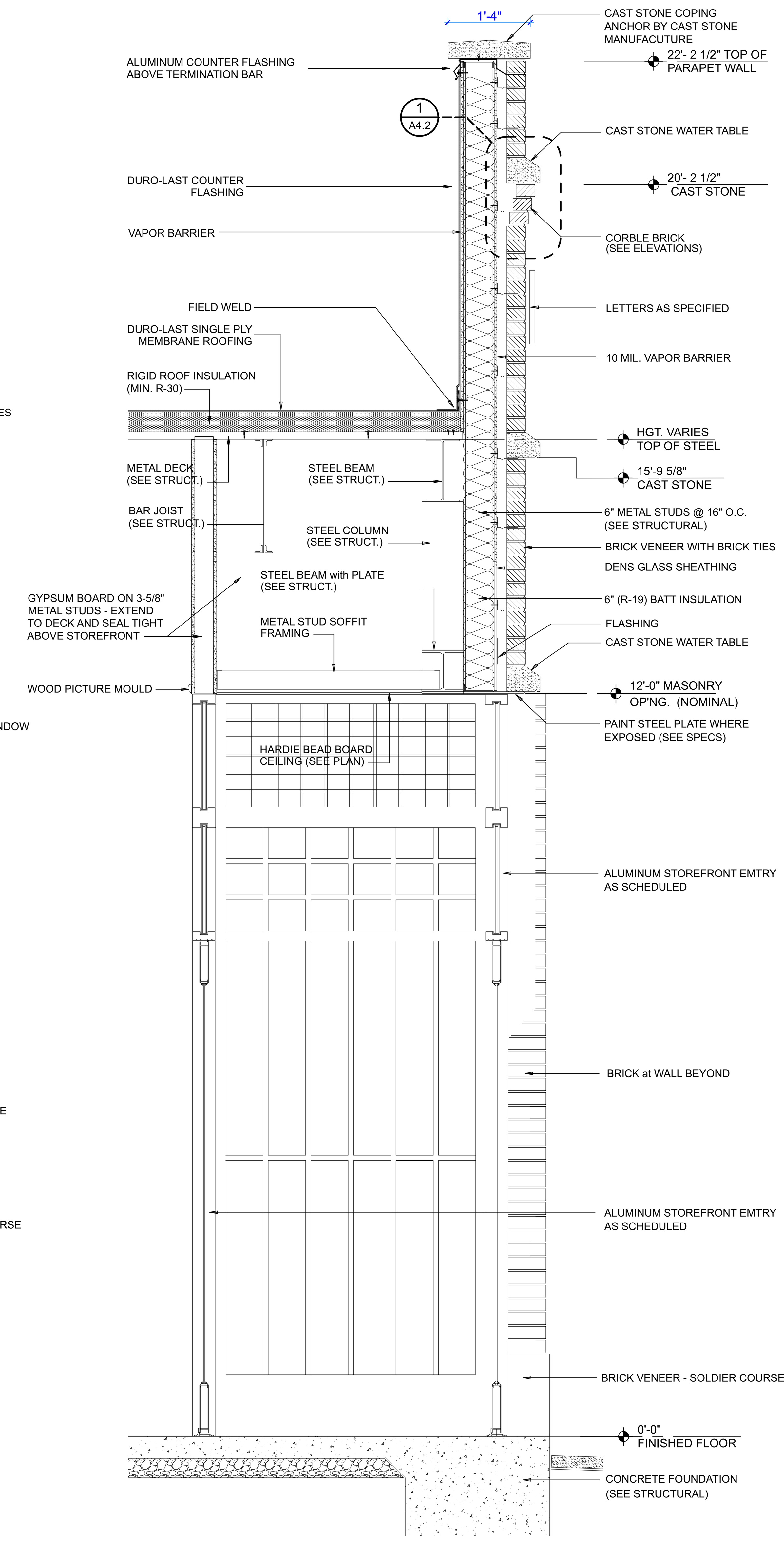
1 BRICK DETAIL
SCALE: 1 1/2"= 1'-0"



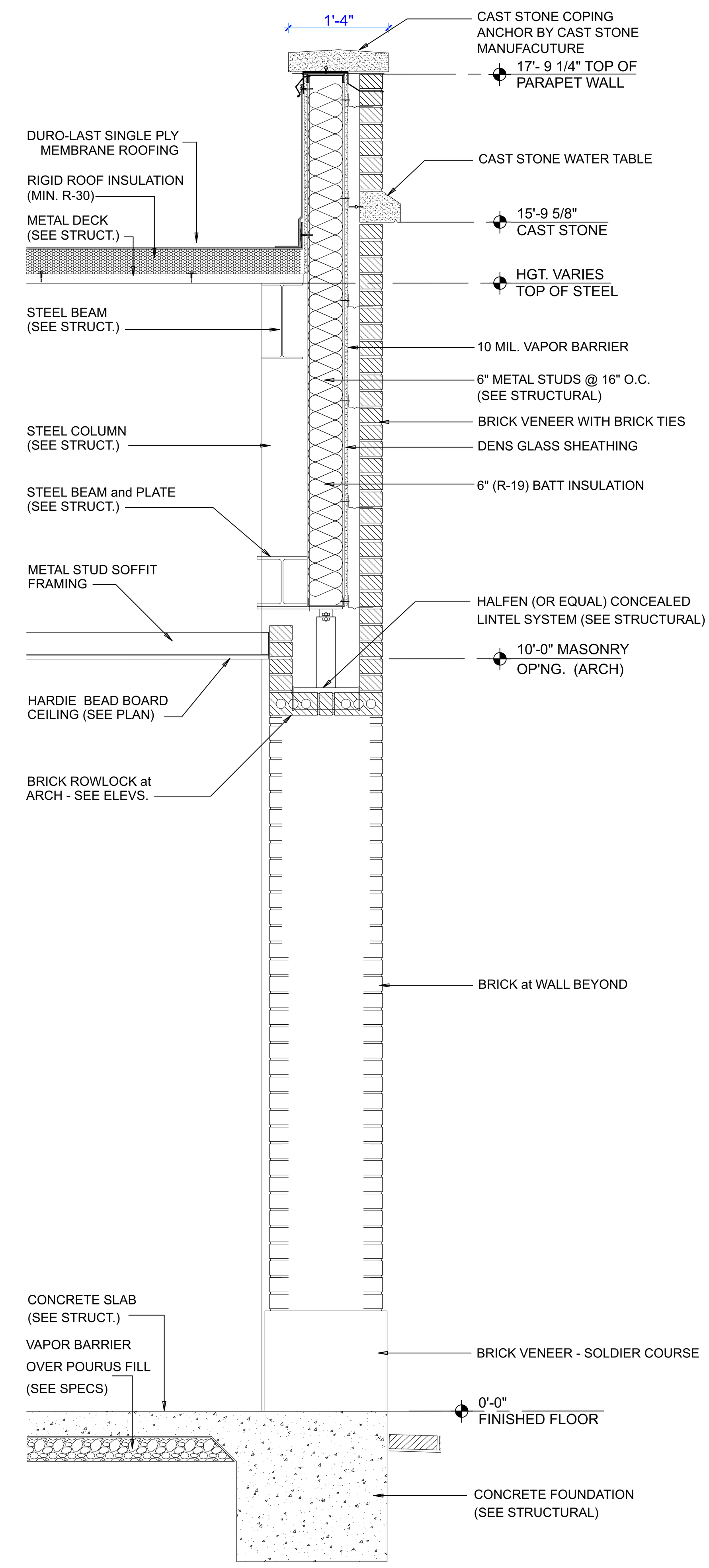
D WALL SECTION
SCALE: 3/4" = 1'-0"



C WALL SECTION
SCALE: 3/4" = 1'-0"



B WALL SECTION
SCALE: 3/4" = 1'-0"



A WALL SECTION
SCALE: 3/4" = 1'-0"

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SHEET TITLE
WALL SECTIONS AND DETAILS

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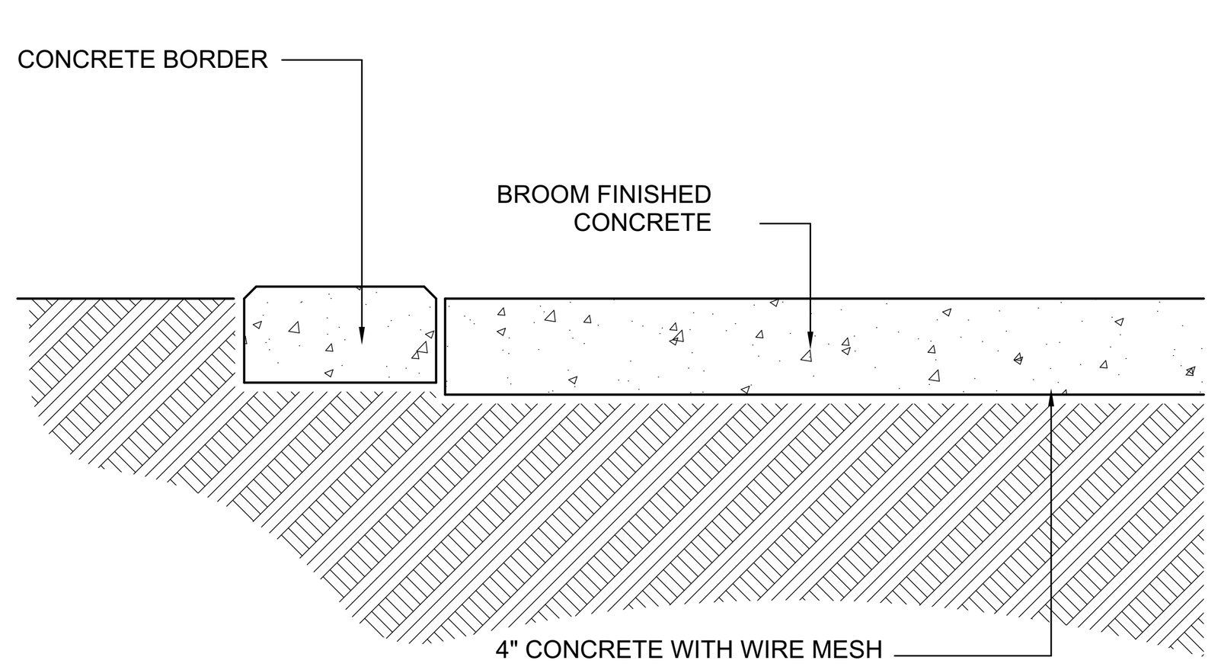
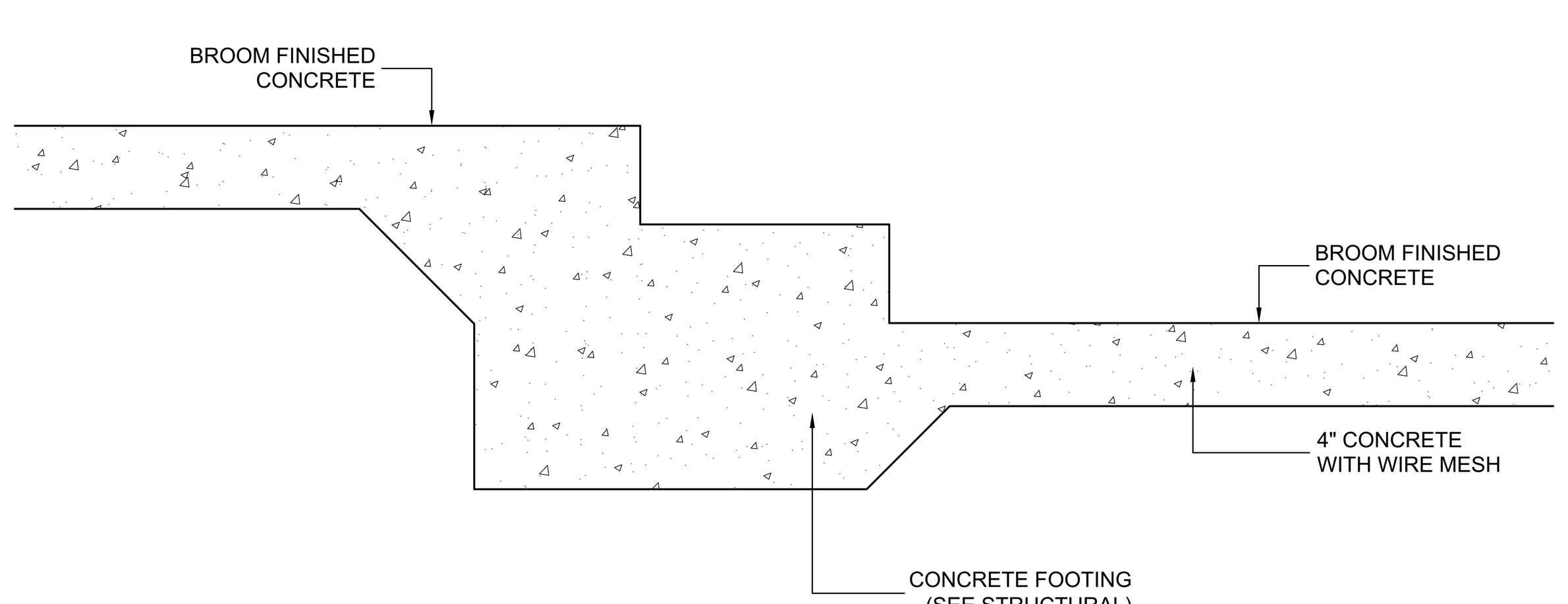
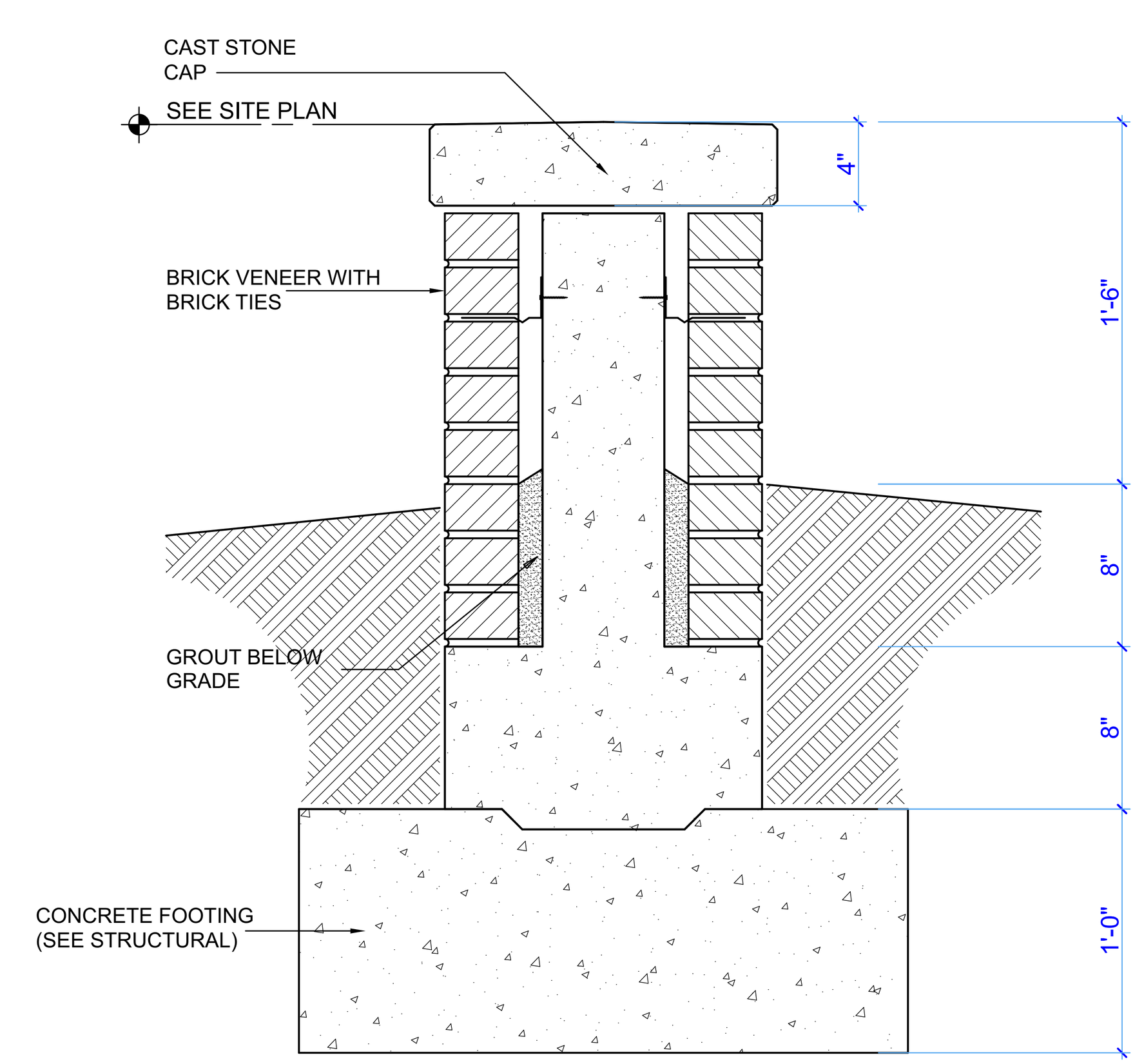


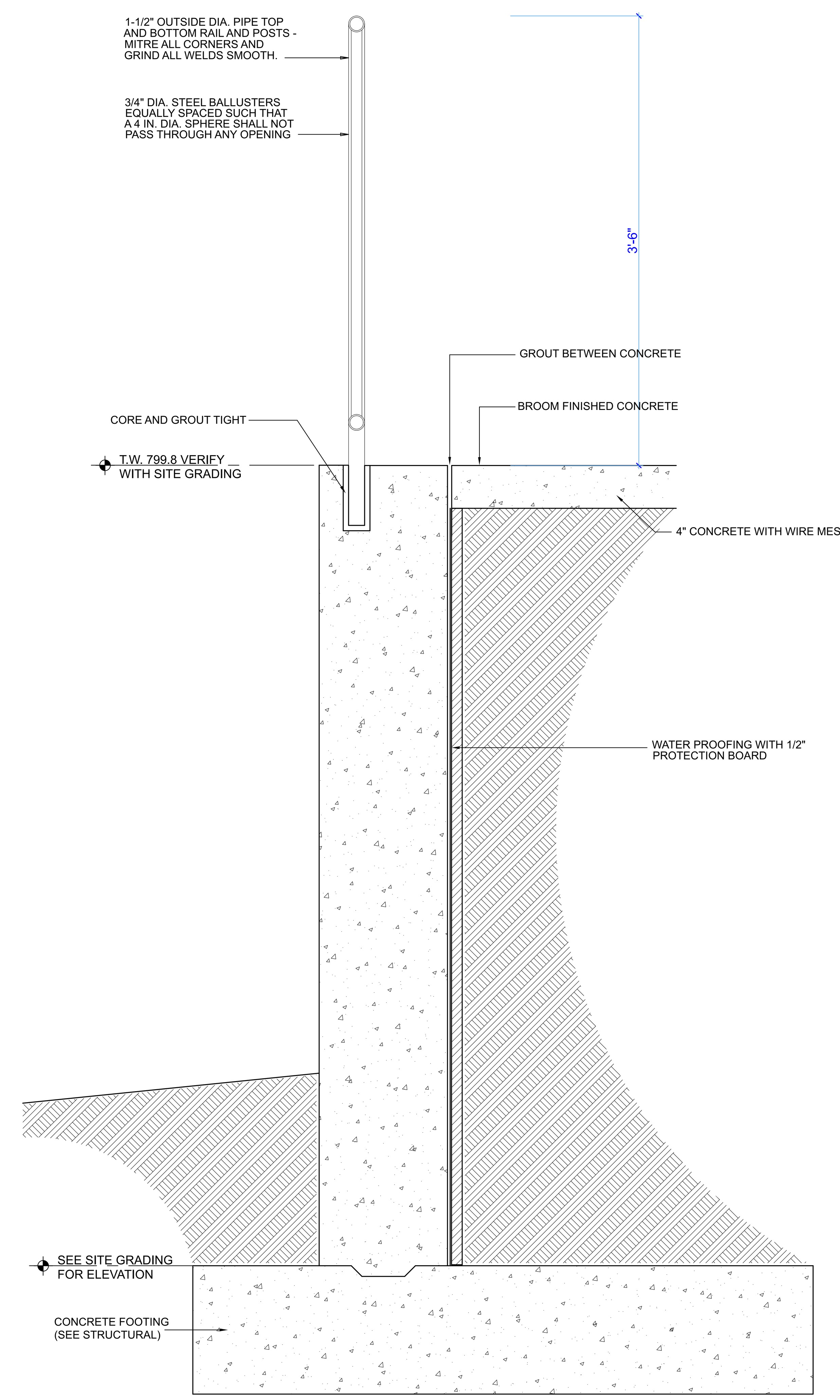
D TYPICAL BRICK PAVER DETAIL
SCALE: 1 1/2"= 1'-0"



C STAIR SECTION
SCALE: 1 1/2"= 1'-0"



B SITE WALL SECTION
SCALE: 1 1/2"= 1'-0"



A RETAINING WALL SECTION
SCALE: 1 1/2"= 1'-0"

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SHEET TITLE
SITE SECTIONS AND DETAILS

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GENERAL RESTROOM ELEVATION NOTES

RESTROOMS ARE TO BE ADA COMPLIANT, REFER TO ADA DETAILS (SHEET LS1.01) FOR SPECIFIC DIMENSIONS AND REQUIREMENTS

COORDINATE ALL PLUMBING AND ELECTRICAL FIXTURES WITH APPLICABLE SCHEDULES

COORDINATE LOCATIONS OF ALL PLUMBING AND ELECTRICAL WITH APPLICABLE DRAWINGS

PROVIDE SUBMITTALS FOR ALL PLUMBING AND ELECTRICAL FIXTURES, TOILET ACCESSORIES, GRAB BARS, TOILET PARTITIONS, AND OTHER RELATED ACCESSORIES

PRODUCTS SPECIFIED ARE FOR BASIS OF DESIGN, PROPOSED PRODUCTS OF EQUAL QUALITY ARE TO BE APPROVED BY ARCHITECT

GYPSUM BOARD

PAPERLESS GYPSUM BOARD TO BE INSTALLED IN ALL RESTROOMS
WALLS: 5/8" LEVEL 5 FINISH
CEILINGS: 1/2" LEVEL 4 FINISH
MANUFACTURER: DENSARMOR PLUS
INSTALLATION: GLUE AND SCREW

INSULATION

R-13 UNFACED INSULATION TO BE INSTALLED IN ALL RESTROOMS

TOILET PARTITIONS

ALL PARTITIONS AND URINAL SCREENS TO BE SOLID PHENOLIC CORE

MANUFACTURER: BOBRICK
MOUNTING CONFIGURATION: FLOOR TO CEILING ANCHORED (PARTITIONS), WALL-HUNG (SCREEN)
HARDWARE: FULL-HEIGHT
PRIVACY OPTIONS: GAP-FREE
FINISH: TBD

FINISHES

PORCELAIN TILE, TO 5'-0" AFF WITH 6" INTEGRAL BASE (INTERIOR RESTROOMS, WATER CLOSET WALL), INTEGRAL BASE TO BE INCLUDED ALONG ALL WALLS

PORCELAIN TILE TILE TO BE INSTALLED TO CEILING (9'-0" AFF) ON LAVATORY WALL

MANUFACTURER: DALTILE
PRODUCT NAME: COLORBODY PORCELAIN: PLAZA NOVA
FINISH / COLOR: GRAY FOG, PN98
SIZE: 12" x 24"
GROUT: BLACK
NOTES: RUNNING BOND PATTERN, USE COORDINATING COVE BASE AND BULLNOSE TRIM PIECES

PAINT, FROM 5'0" ABOVE FINISH FLOOR TO CEILING (INTERIOR RESTROOMS, WATER CLOSET WALL), PAINT ENTIRETY OF OTHER WALLS

MANUFACTURER: PPG
PRODUCT NAME: GYPSUM
FINISH / COLOR: EGGSHELL, 1006-1

SOLID SURFACE VANITY COUNTERTOP

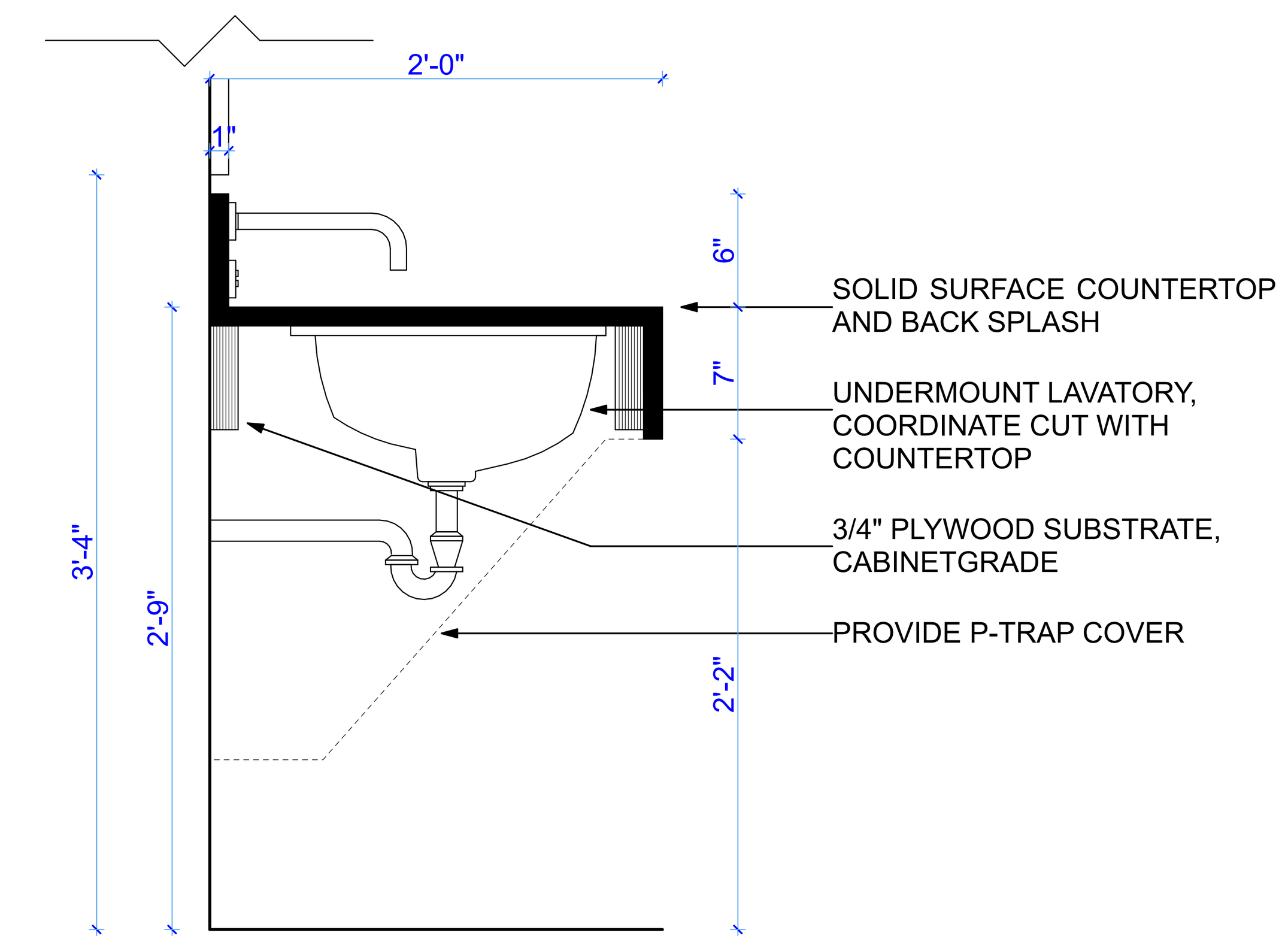
MANUFACTURER: CAMBRIA
THICKNESS: 3CM
EDGE PROFILE: RIMROCK
FINISH / COLOR: HOLLINSBROOK

RUBBER BASE FOR EXTERIOR RESTROOMS

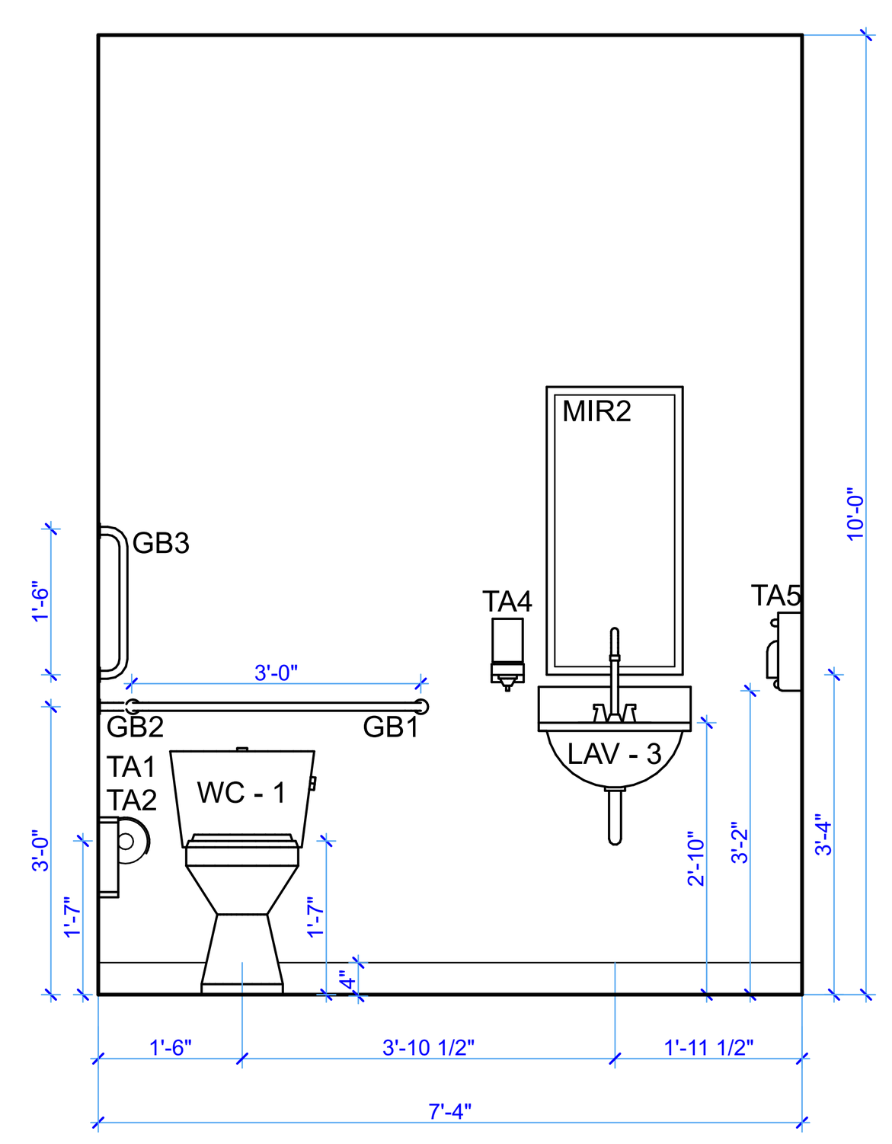
MANUFACTURER: BURKE FLOORING
TYPE: TV
FINISH / COLOR: BLACK

INTERIOR ELEVATION RESTROOM TAGS

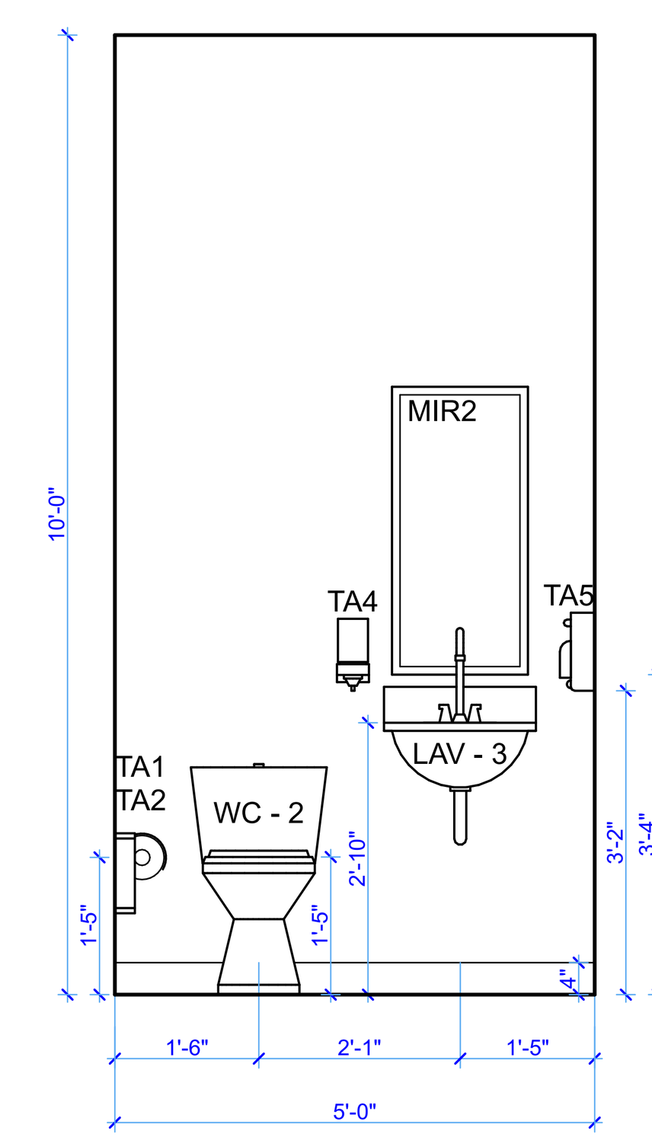
TAG	FIXTURE
WATER CLOSETS / URINALS	
WC - 1	HANDICAP ACCESSIBLE WATER CLOSET
WC - 2	WATER CLOSET
UR - 1	URINAL
LAVATORIES	
LAV - 1	HANDICAP ACCESSIBLE, HAND WASH LAVATORY, WITH INTEGRAL SOAP DISPENSER
LAV - 3	HANDICAP ACCESSIBLE, HAND WASH LAVATORY
TOILET ACCESSORIES	
TA1	TOILET TISSUE DISPENSER
TA2	SANITARY NAPKIN DISPOSAL (WOMEN'S RESTROOM ONLY)
TA3	HORIZONTAL, RECESSED BABY CHANGING STATION
TA4	SOAP DISPENSER
TA5	HIGH SPEED HAND DRYER
TA6	RECESSED PAPER TOWEL DISPENSER WITH INTEGRAL WASTE RECEPTACLE
GRAB BARS	
GB1	36" HORIZONTAL, STAINLESS STEEL GRAB BAR (REAR)
GB2	42" HORIZONTAL, STAINLESS STEEL GRAB BAR (SIDE)
GB3	18" VERTICAL, STAINLESS STEEL GRAB BAR (SIDE)
OTHER ACCESSORIES	
MIR1	RESTORATION HARDWARE: MARSEILLES MIRROR, 35 3/4" W x 3" D x 48" H, BLACK FINISH
MIR2	BOBRIC: MIRROR WITH STAINLESS STEEL CHANNEL FRAME, 18" W x 36" H, B-165 1836
W - 1	10" DECORATIVE PENDANT, BESA LIGHTING, 1KX-464488-SN
OTHER:	PLEASE INCLUDE A CLOTHES HOOK AT EACH TOILET STALL IN ALL INTERIOR RESTROOMS, AND ONE AT EACH EXTERIOR RESTROOM.



A RESTROOM VANITY SECTION
SCALE: 1 1/2"= 1'-0"



6 ADA UNISEX RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



5 UNISEX RESTROOM ELEVATION
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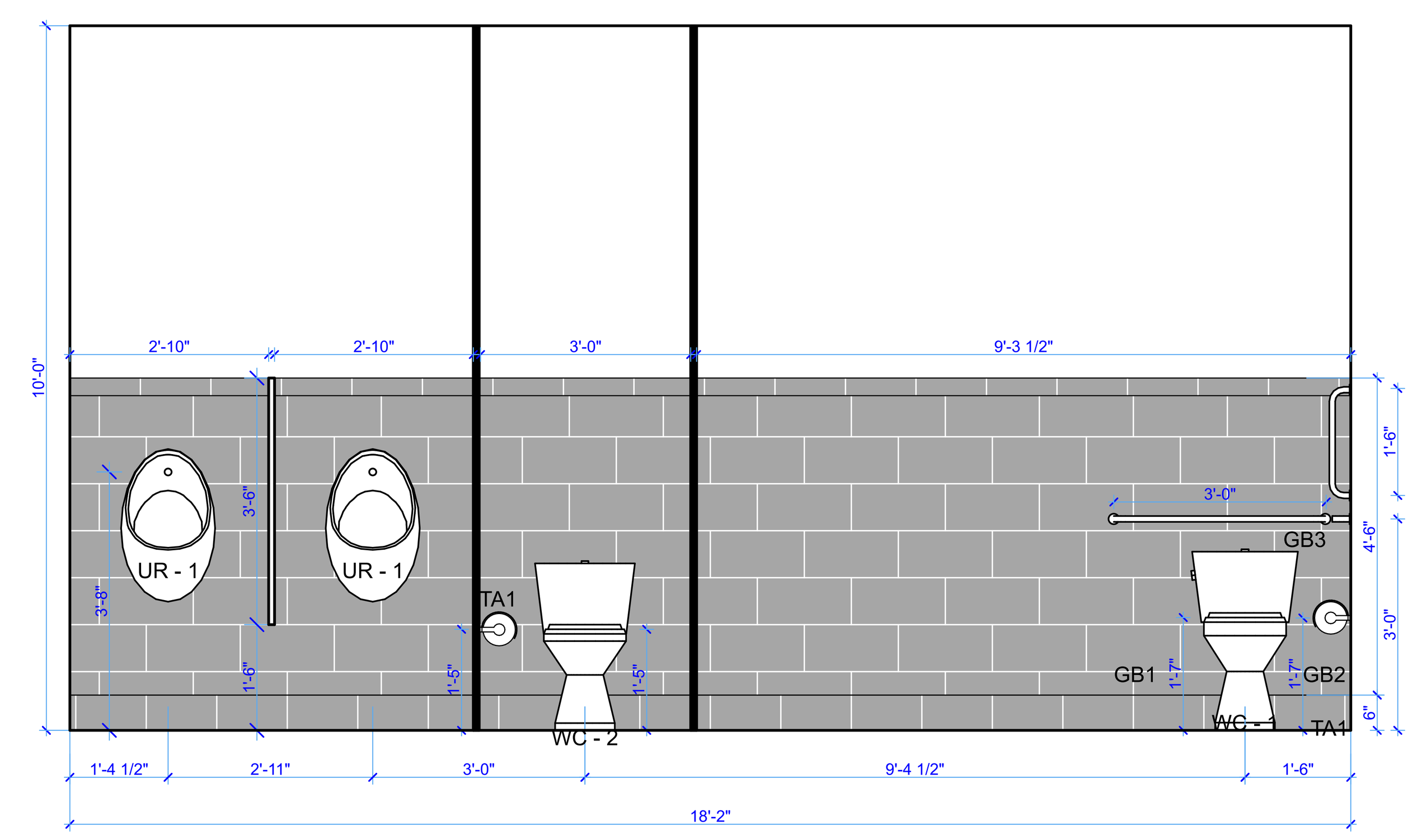
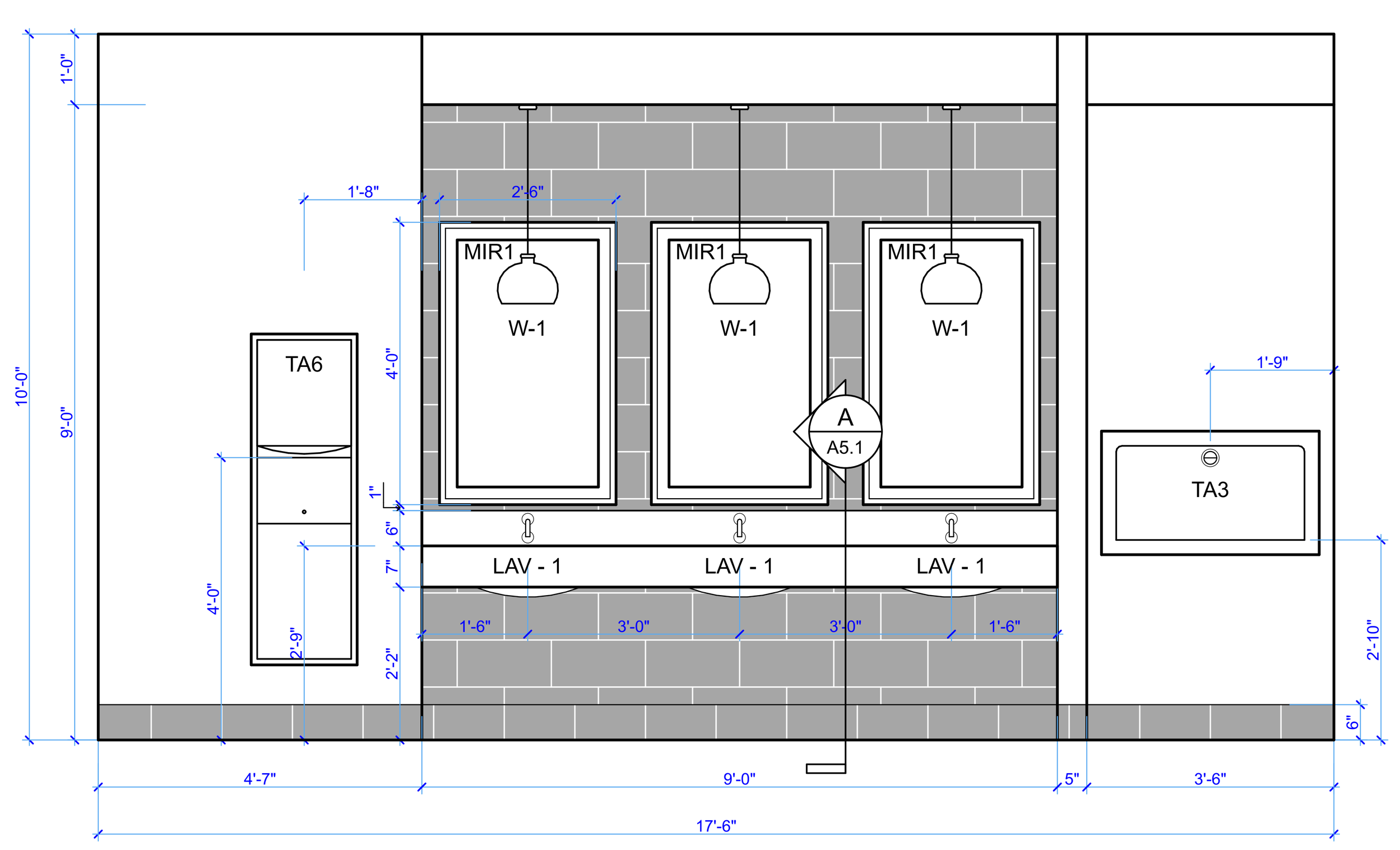
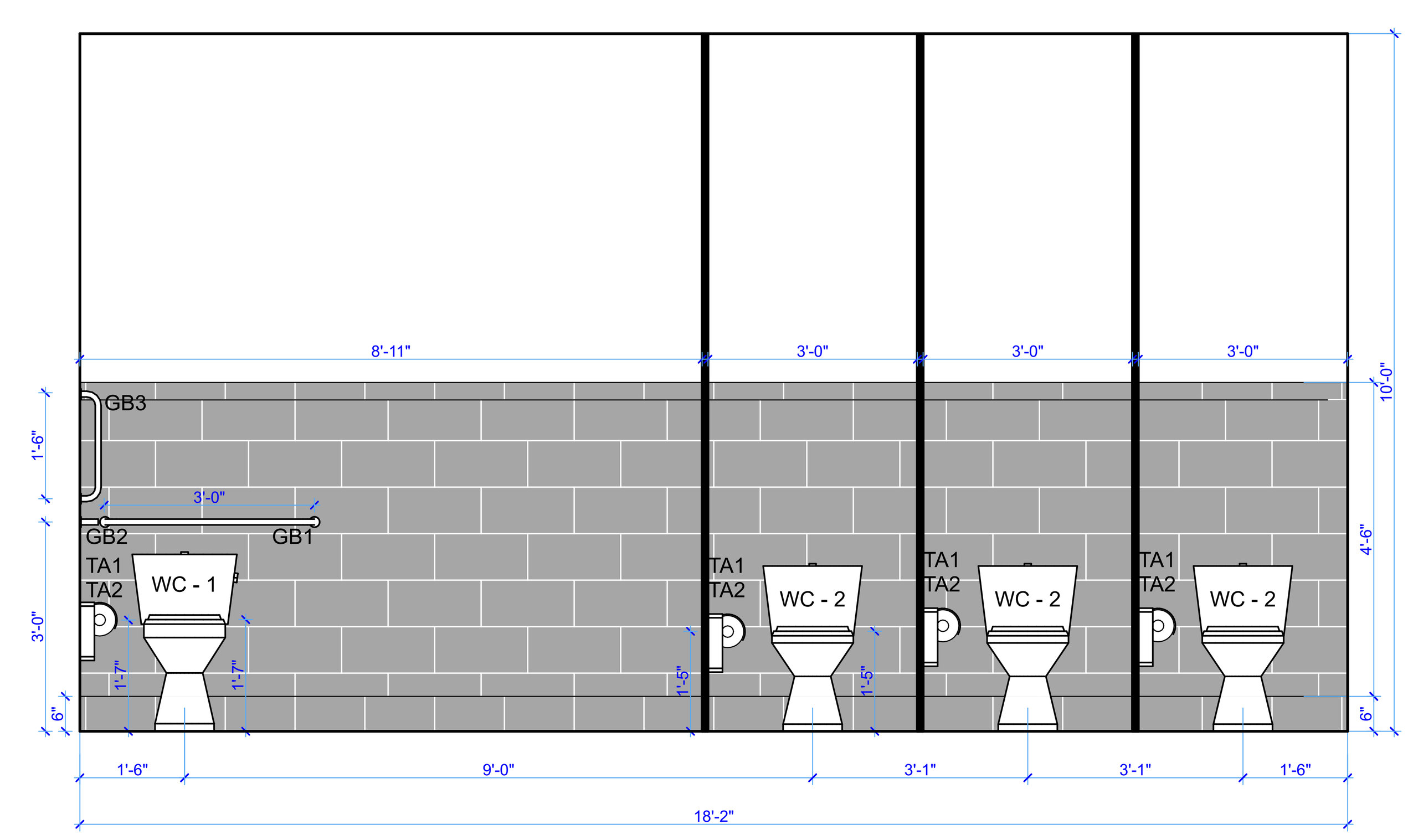


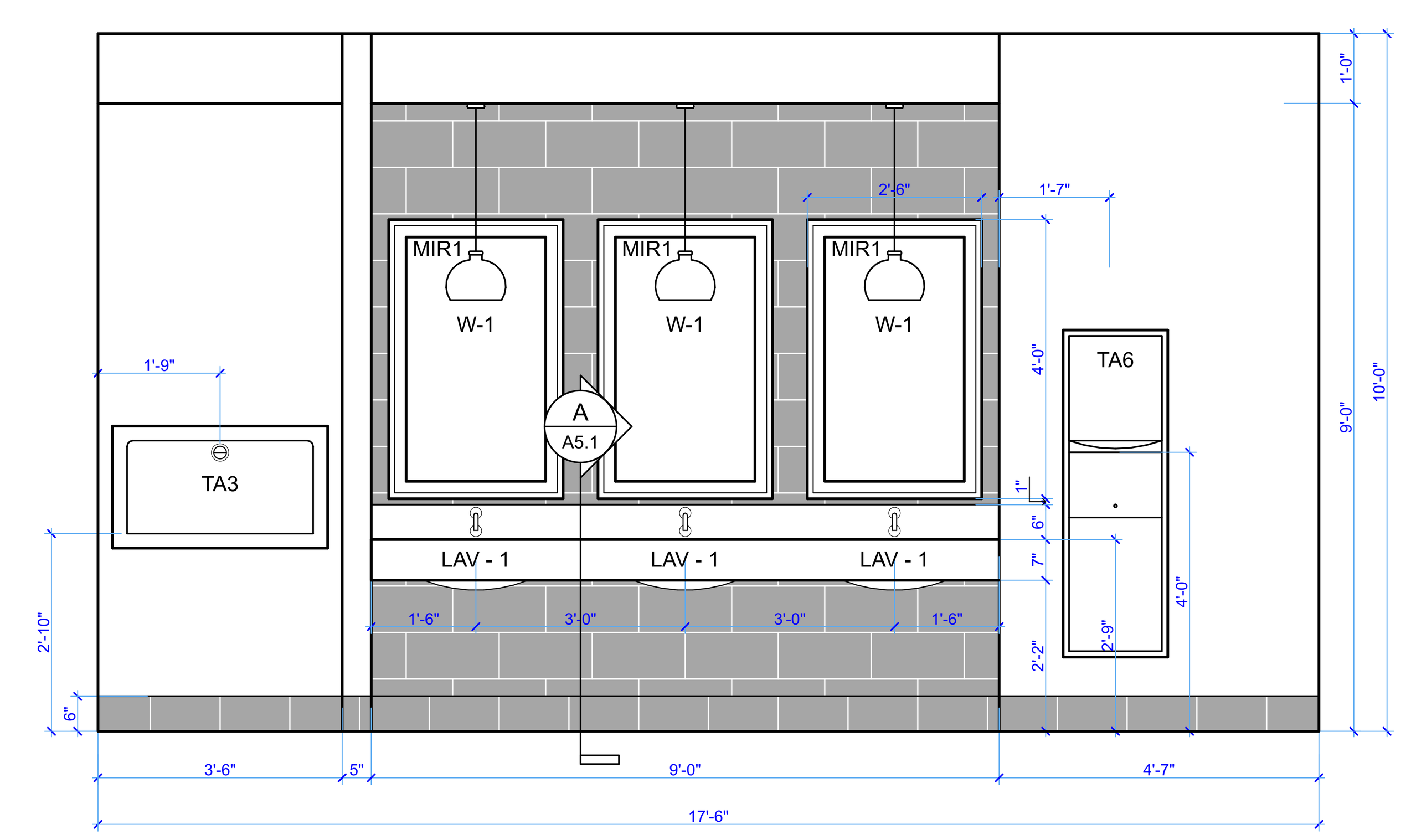
4 MEN'S RESTROOM WATER CLOSET ELEVATION
SCALE: 1/2" = 1'-0"



3 MEN'S RESTROOM VANITY ELEVATION
SCALE: 1/2" = 1'-0"



2 WOMEN'S RESTROOM WATER CLOSET ELEVATION
SCALE: 1/2" = 1'-0"



1 WOMEN'S RESTROOM VANITY ELEVATION
SCALE: 1/2" = 1'-0"

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SHEET TITLE
RESTROOM ELEVATIONS AND SECTIONS

SHEET TITLE
A5.1

GENERAL RESTROOM ELEVATION NOTES

DRINK AREA AND RECEPTION DESK TO BE ADA COMPLIANT, REFER TO ADA DETAILS (SHEET LS1.01) FOR SPECIFIC DIMENSIONS AND REQUIREMENTS

COORDINATE ALL PLUMBING AND ELECTRICAL FIXTURES WITH APPLICABLE SCHEDULES

COORDINATE LOCATIONS OF ALL PLUMBING AND ELECTRICAL WITH APPLICABLE DRAWINGS

PROVIDE SUBMITTALS FOR ALL PLUMBING AND ELECTRICAL FIXTURES, PAINTS AND STAINS, AND OTHER RELATED FINISHES

PRODUCTS SPECIFIED ARE FOR BASIS OF DESIGN, PROPOSED PRODUCTS OF EQUAL QUALITY ARE TO BE APPROVED BY ARCHITECT

FINISHES

PAINT, ABOVE BACKSPLASH IN DRINK AREA

MANUFACTURER: PPG
PRODUCT NAME: KNIGHT'S ARMOR
FINISH / COLOR: EGGSHELL, 1001-6

SOLID SURFACE COUNTERTOP, DRINK AREA AND RECEPTION DESK

MANUFACTURER: CAMBRIA
THICKNESS: 3CM
EDGE PROFILE: RIMROCK
FINISH / COLOR: HOLLINSBROOK

STAIN, DRINK AREA AND RECEPTION DESK

MANUFACTURER: SHERWIN WILLIAMS
PRODUCT NAME: INTERIOR OIL STAIN
FINISH / COLOR: WARM CHESTNUT
MODEL NUMBER: SW - 3114 - P

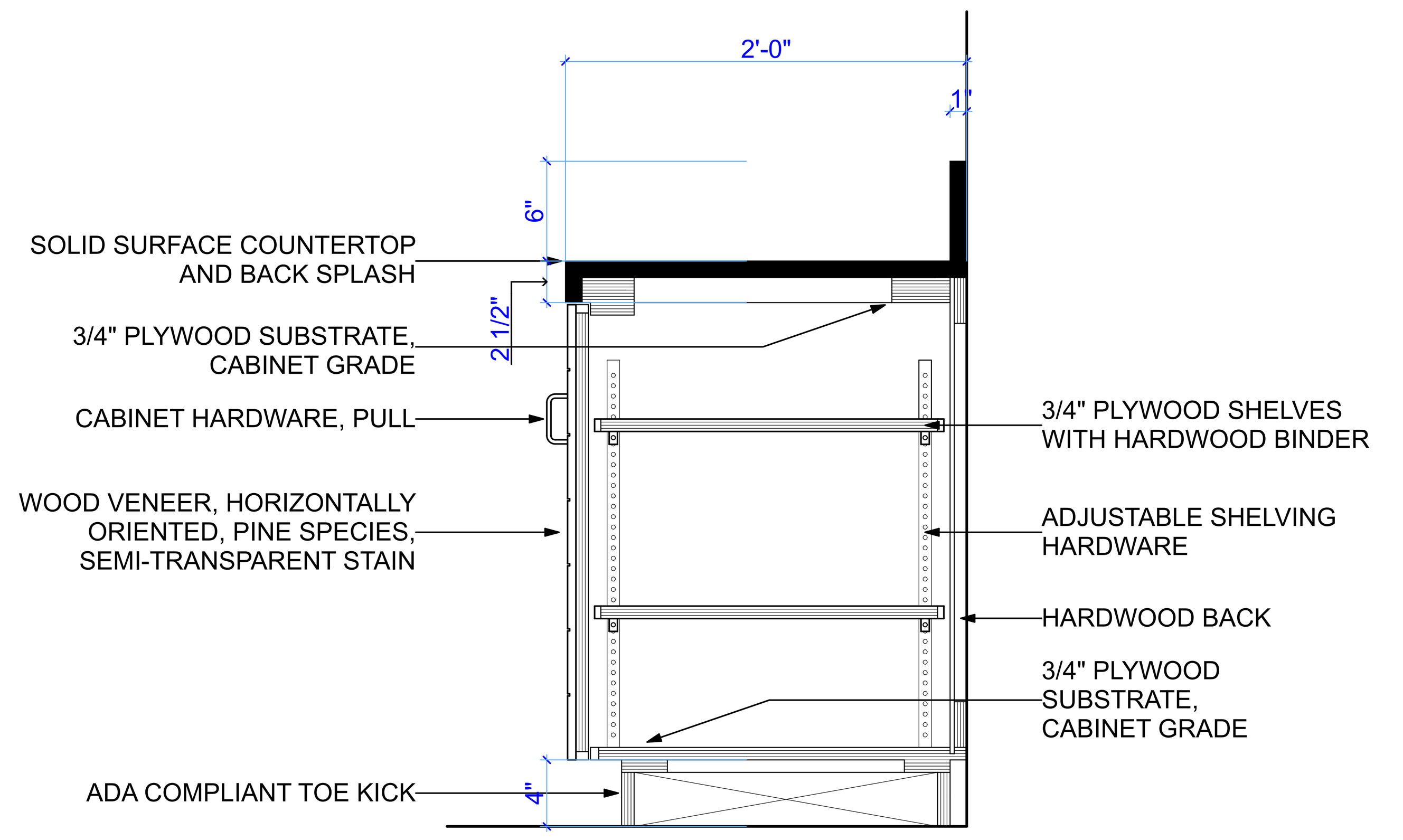
HARDWARE

ALL CABINET AND DRAWER HARDWARE

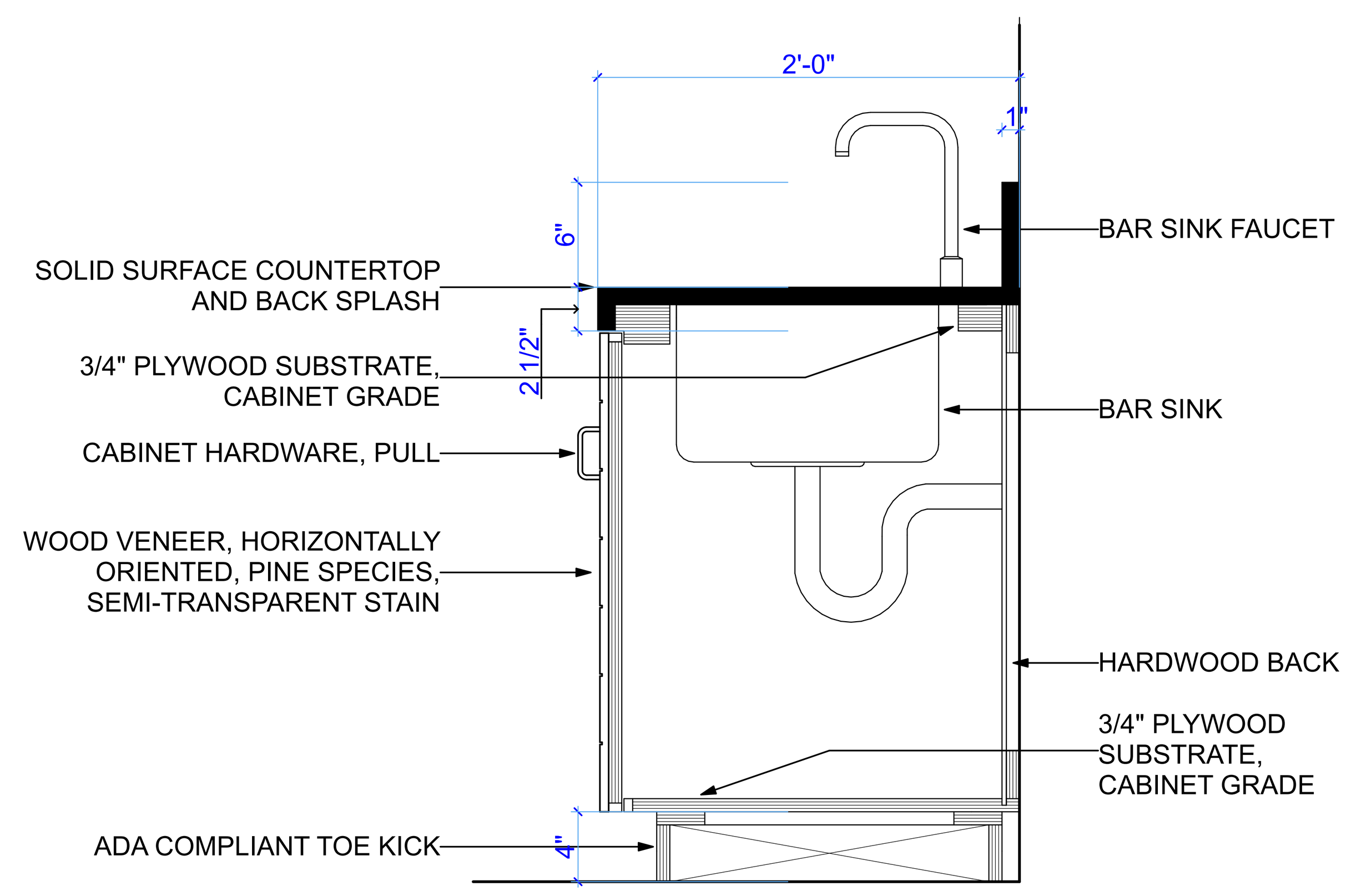
MANUFACTURER: AMEROCK
PRODUCT NAME: BLACKROCK HARDWARE, 96MM
FINISH / COLOR: BLACK BRONZE

INTERIOR ELEVATION TAGS

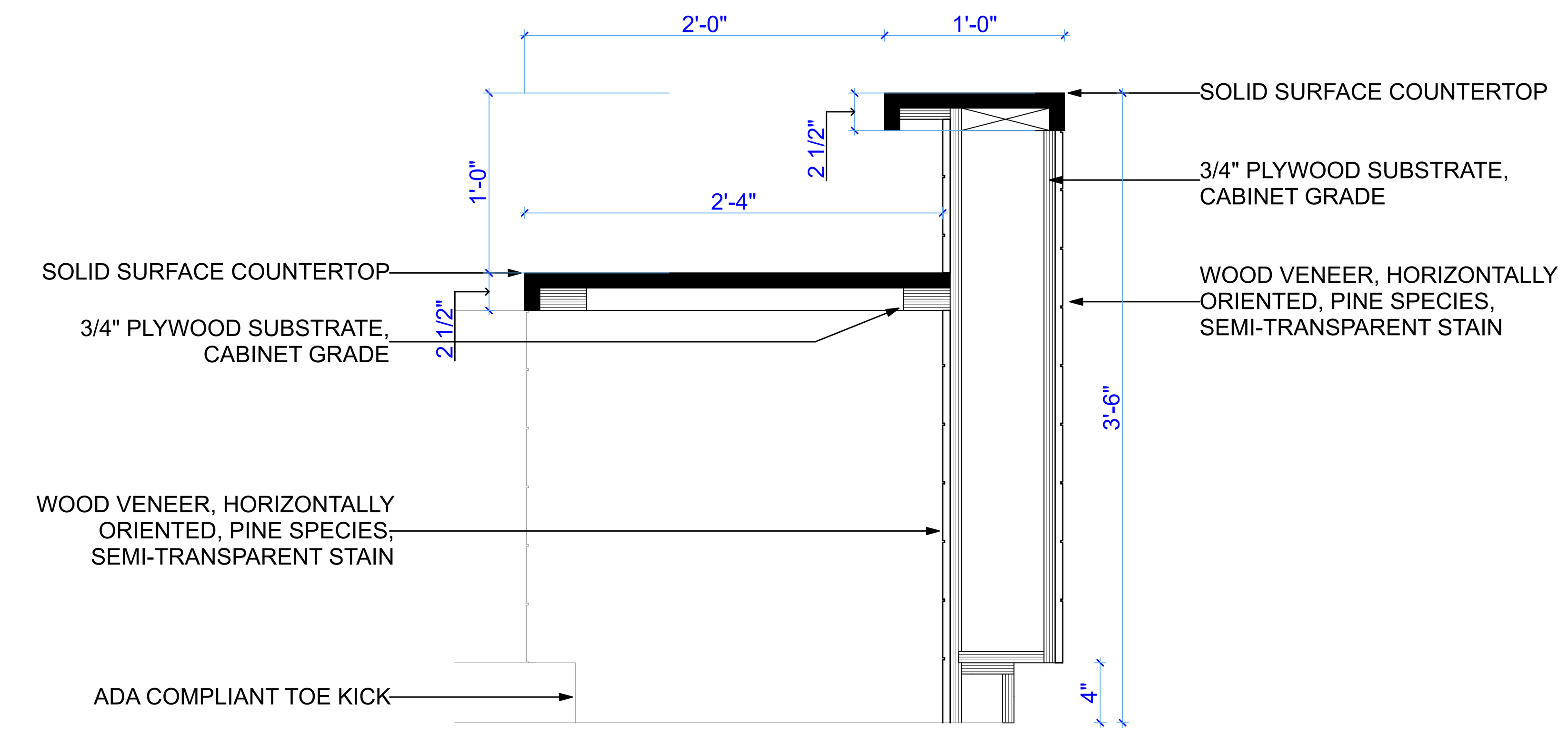
TAG	FIXTURE
S - 2	BAR SINK
W - 2	10" DECORATIVE PENDANT, BESA LIGHTING, 1KX-4644GD-EDI-BR



E DRINK AREA SECTION
SCALE: 1 1/2"= 1'-0"



D DRINK AREA SECTION
SCALE: 1 1/2"= 1'-0"



C RECEPTION DESK SECTION
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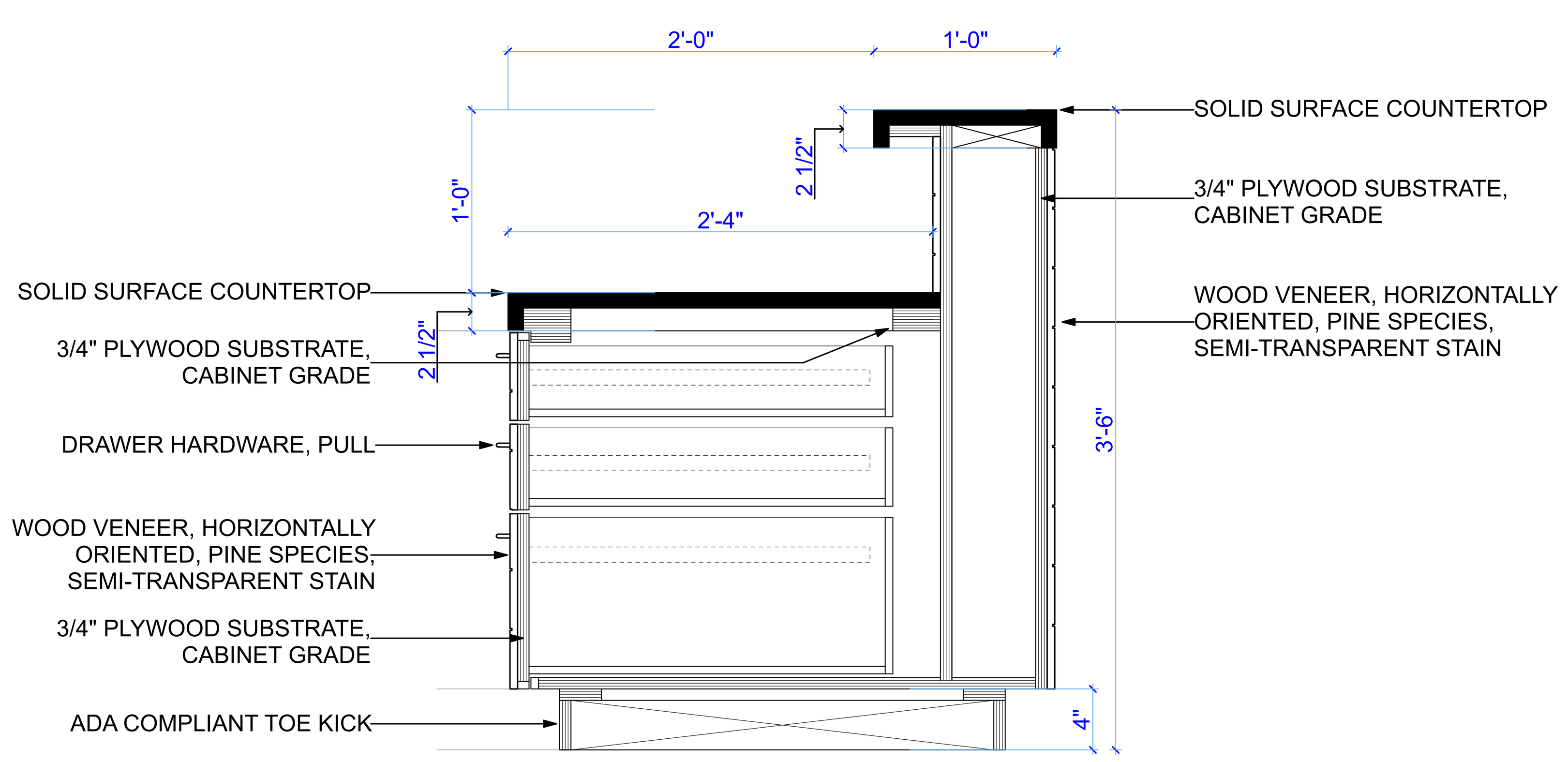
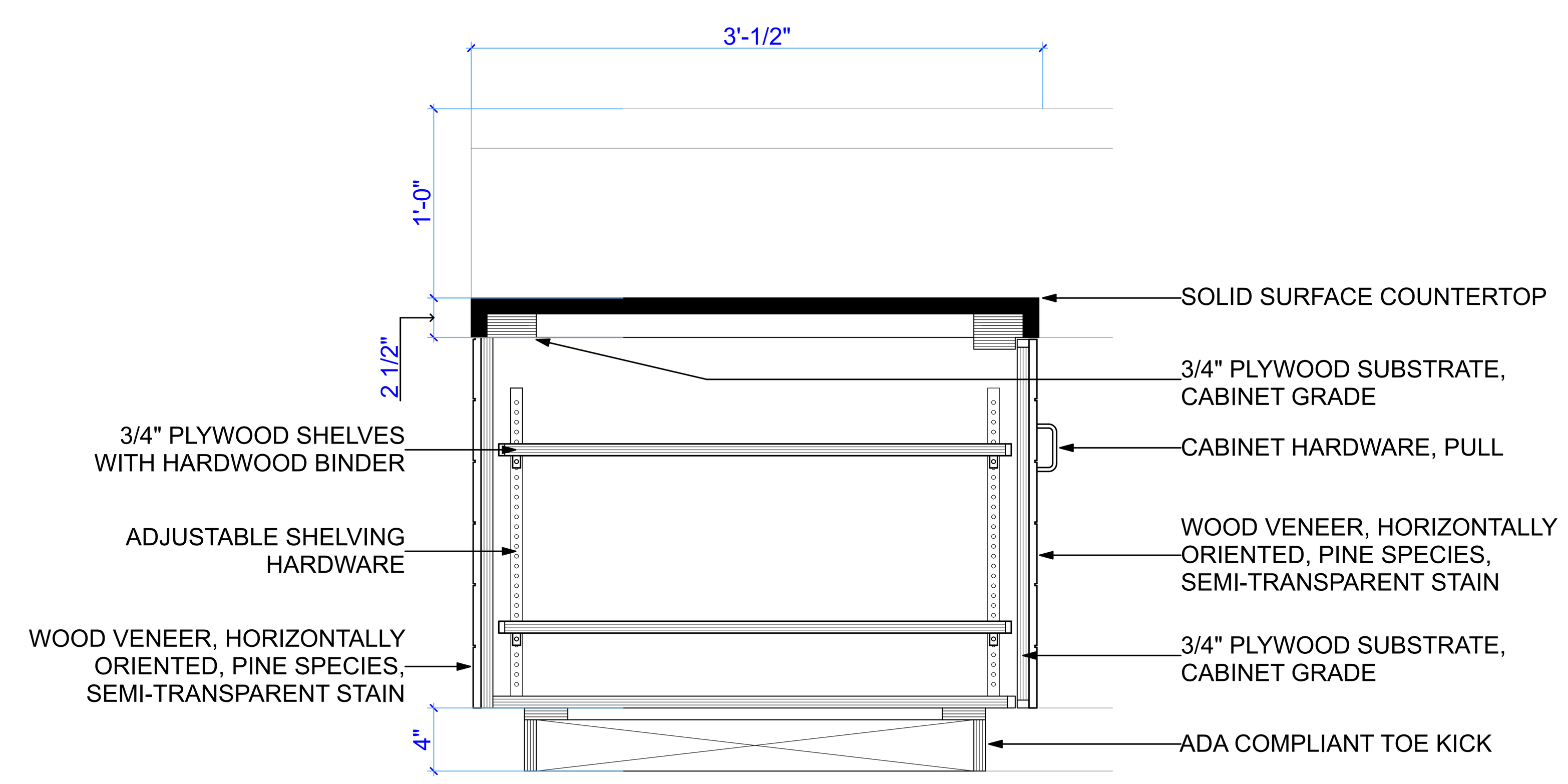


B RECEPTION DESK SECTION
SCALE: 1 1/2"= 1'-0"



A RECEPTION DESK SECTION
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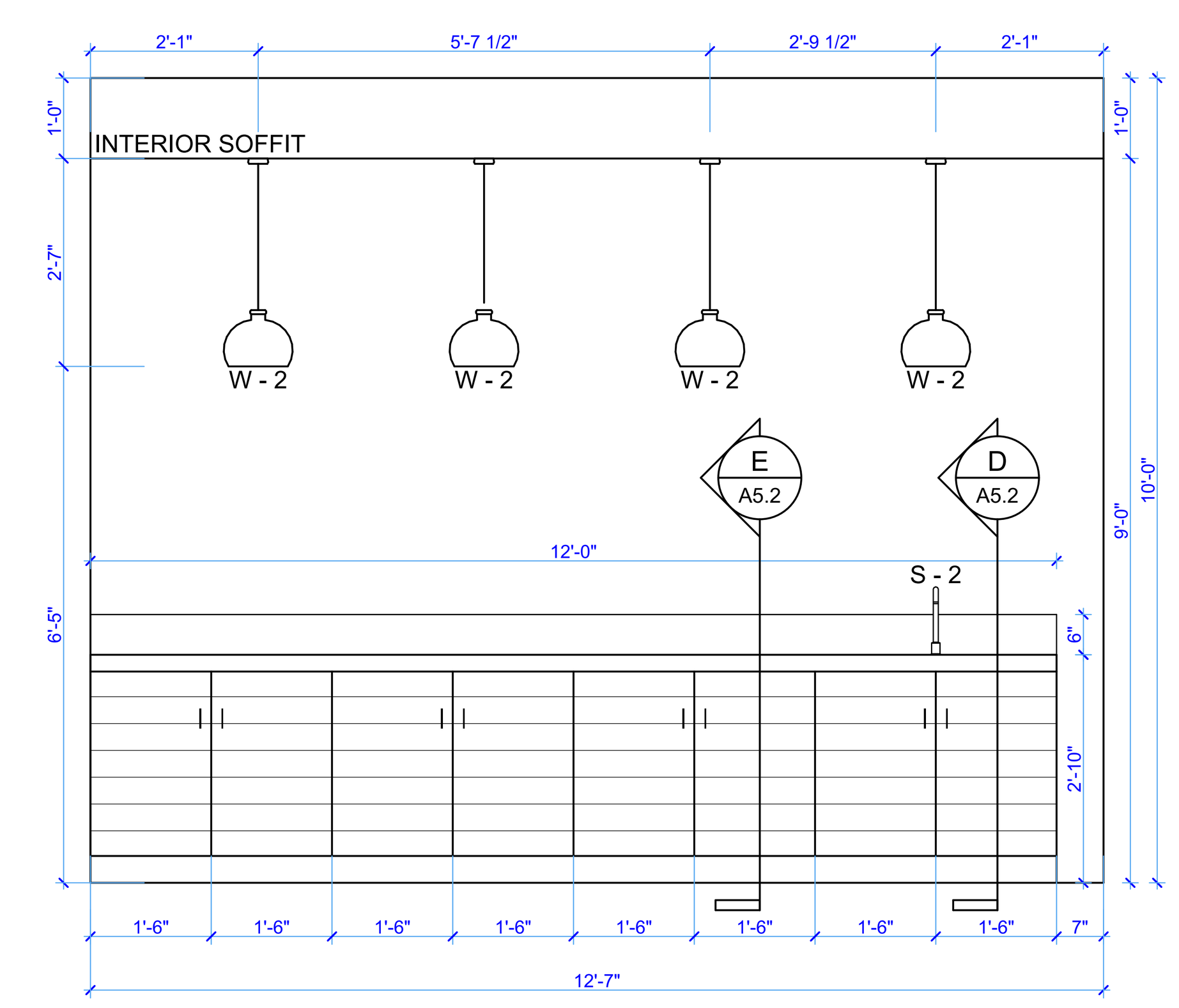

5 DRINK AREA ELEVATION
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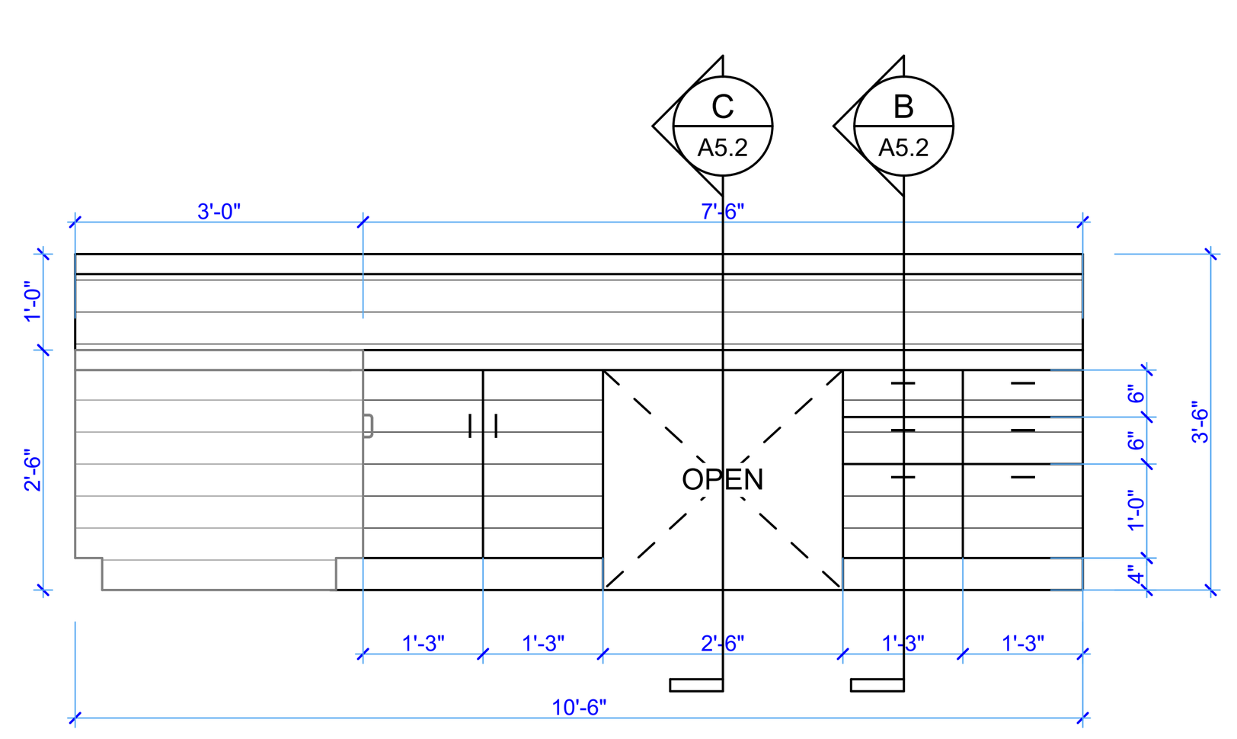
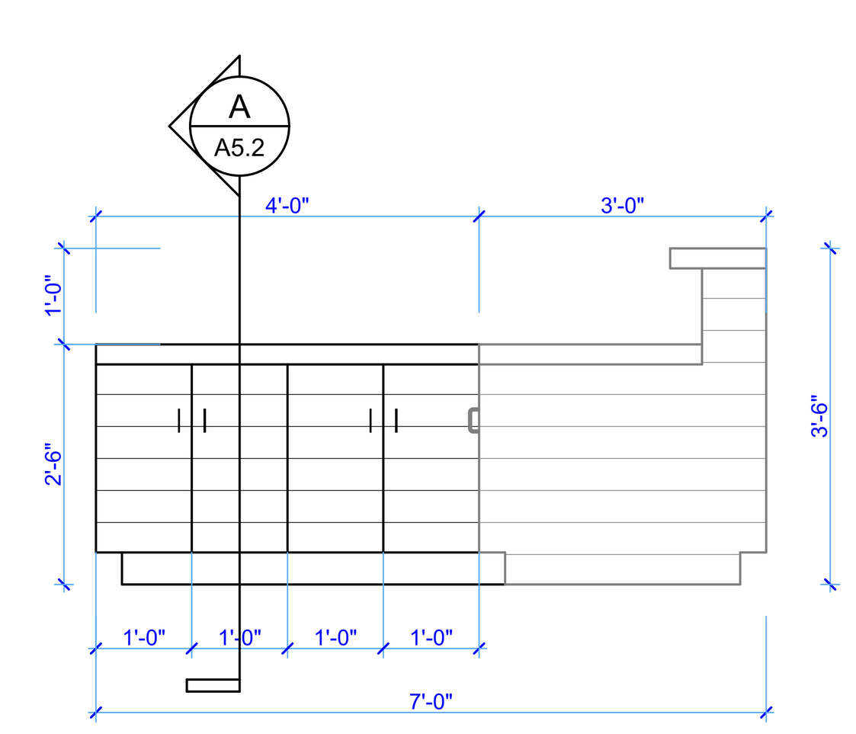
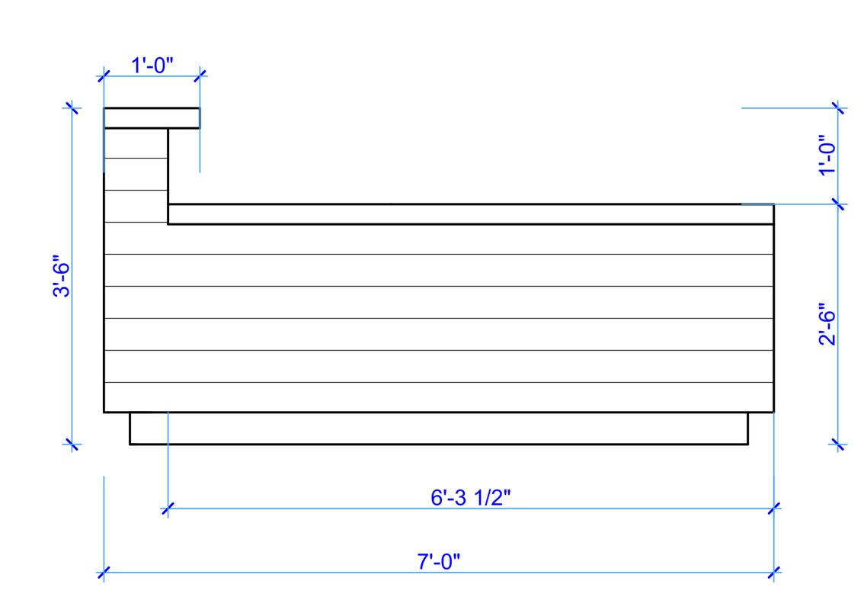


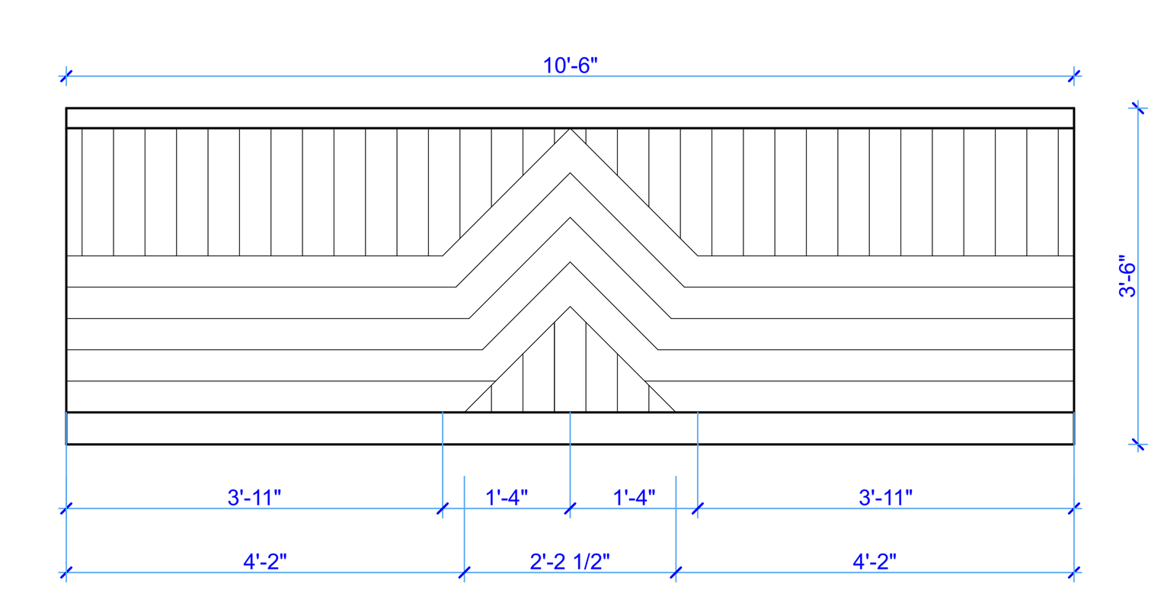
4 RECEPTION DESK INSIDE ELEVATION
SCALE: 1/2" = 1'-0"



3 RECEPTION DESK INSIDE ELEVATION
SCALE: 1/2" = 1'-0"



2 RECEPTION DESK SIDE ELEVATION
SCALE: 1/2" = 1'-0"



1 RECEPTION DESK FRONT ELEVATION
SCALE: 1/2" = 1'-0"

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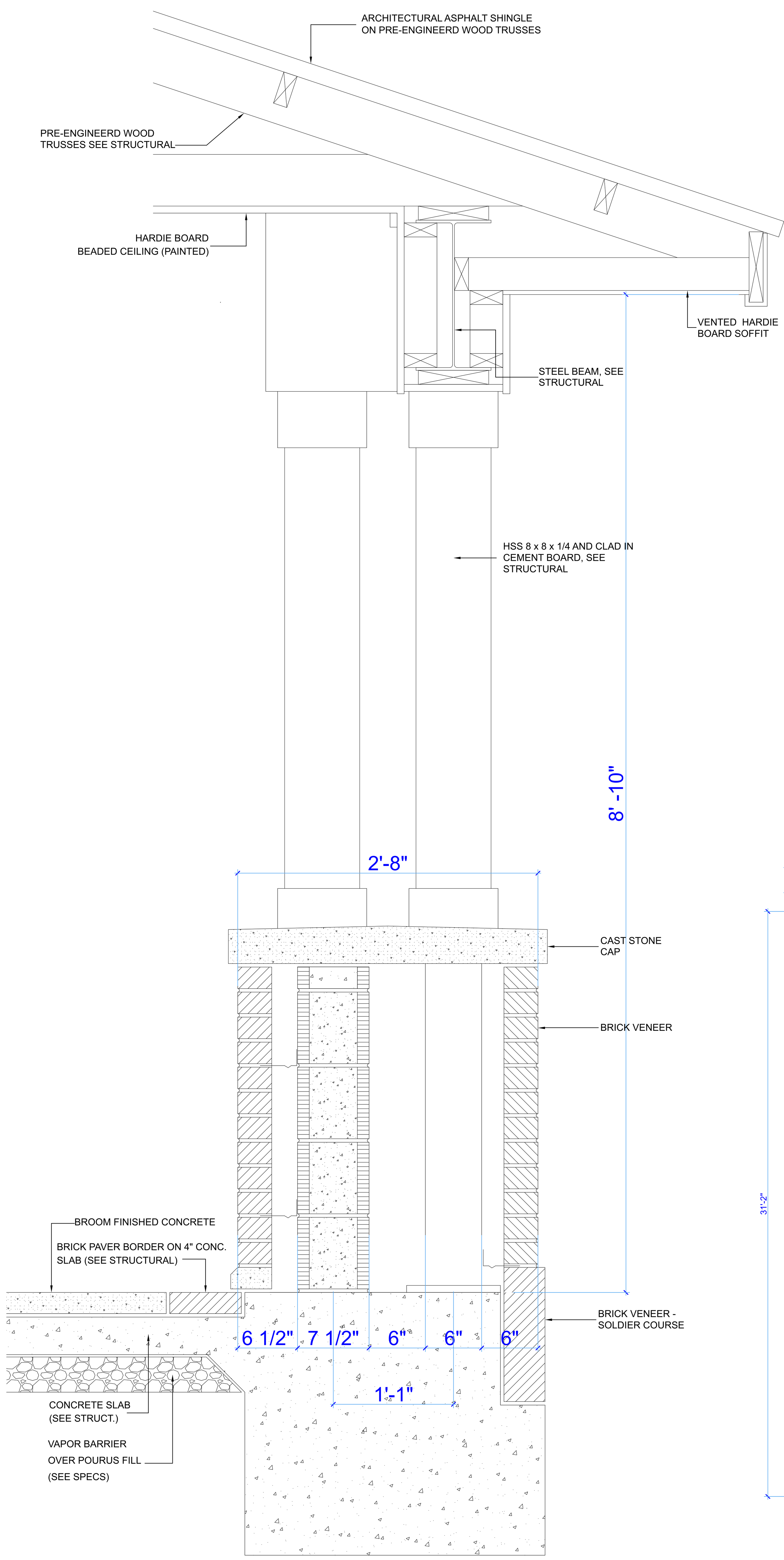
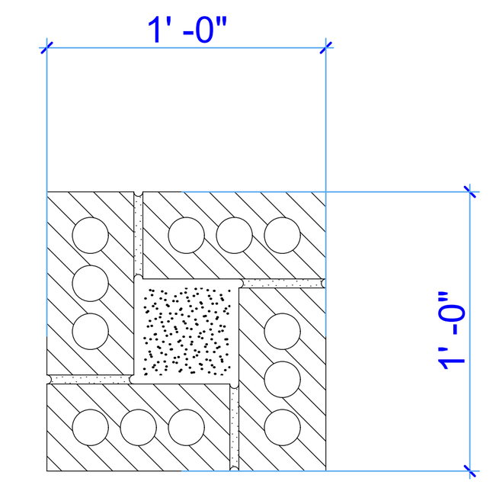
INTERIOR ELEVATIONS AND SECTION

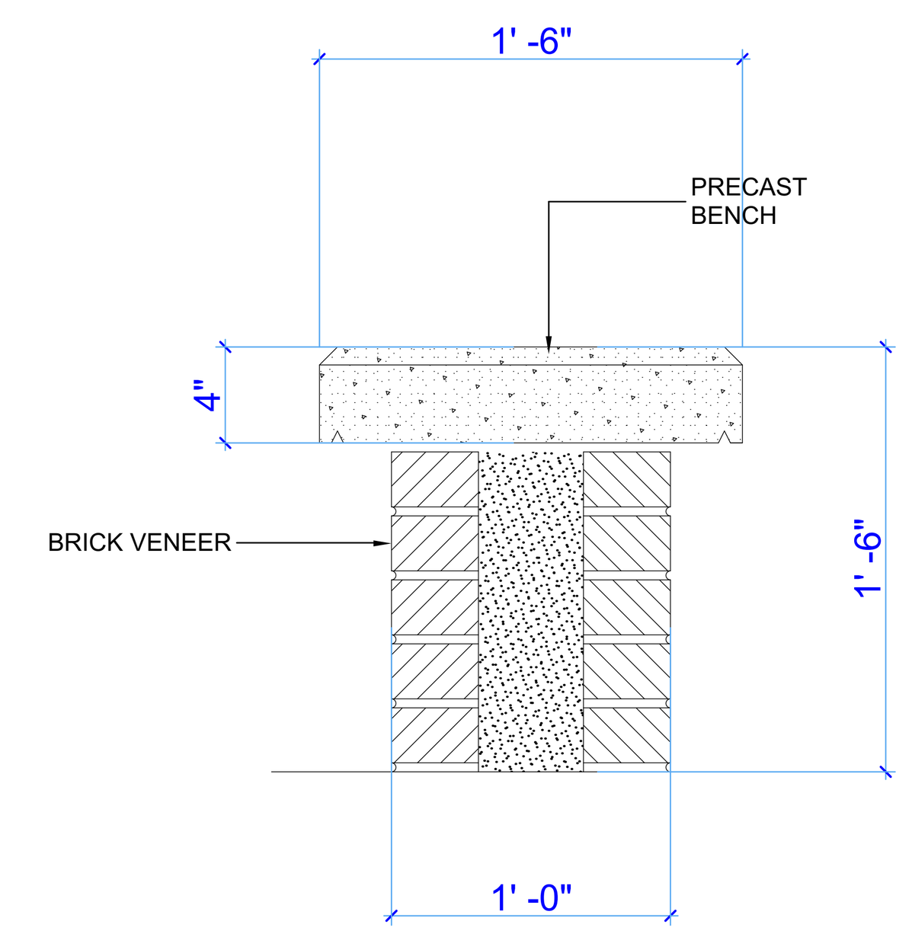
SHEET TITLE
A5.2



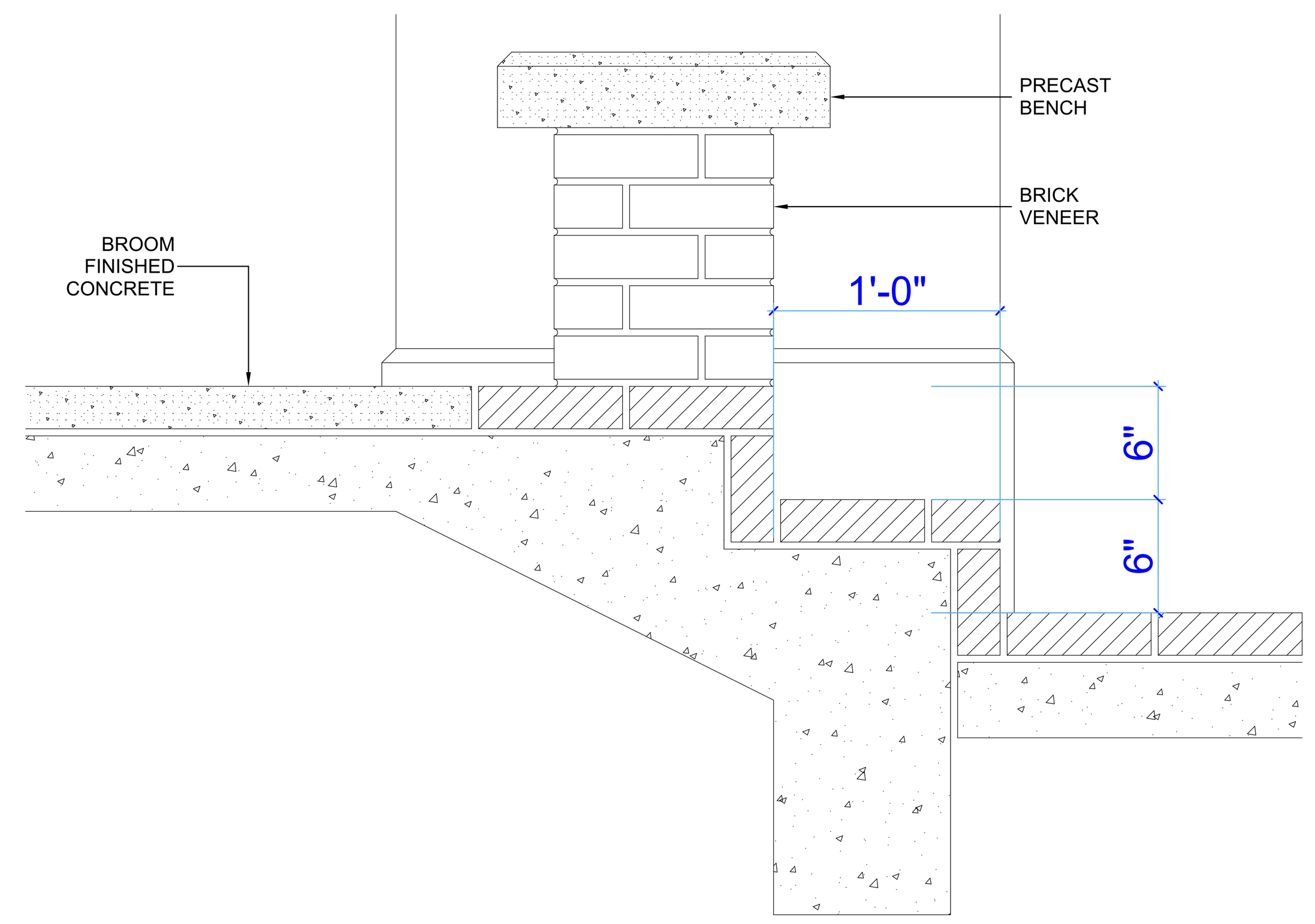
A PAVILION COLUMN SECTION
SCALE: 1 1/2"= 1'-0"



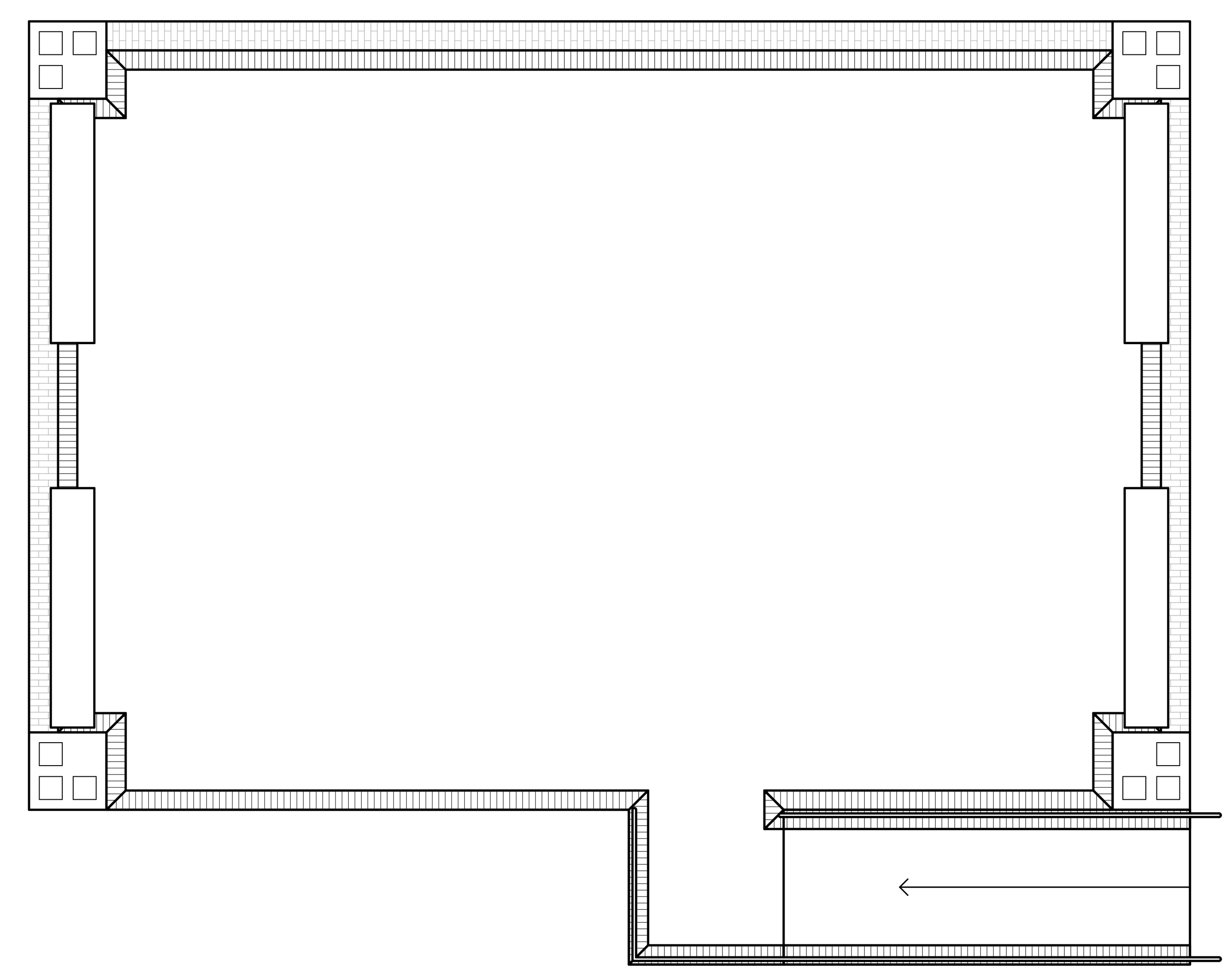
D BENCH DETAIL
SCALE: 1 1/2"= 1'-0"



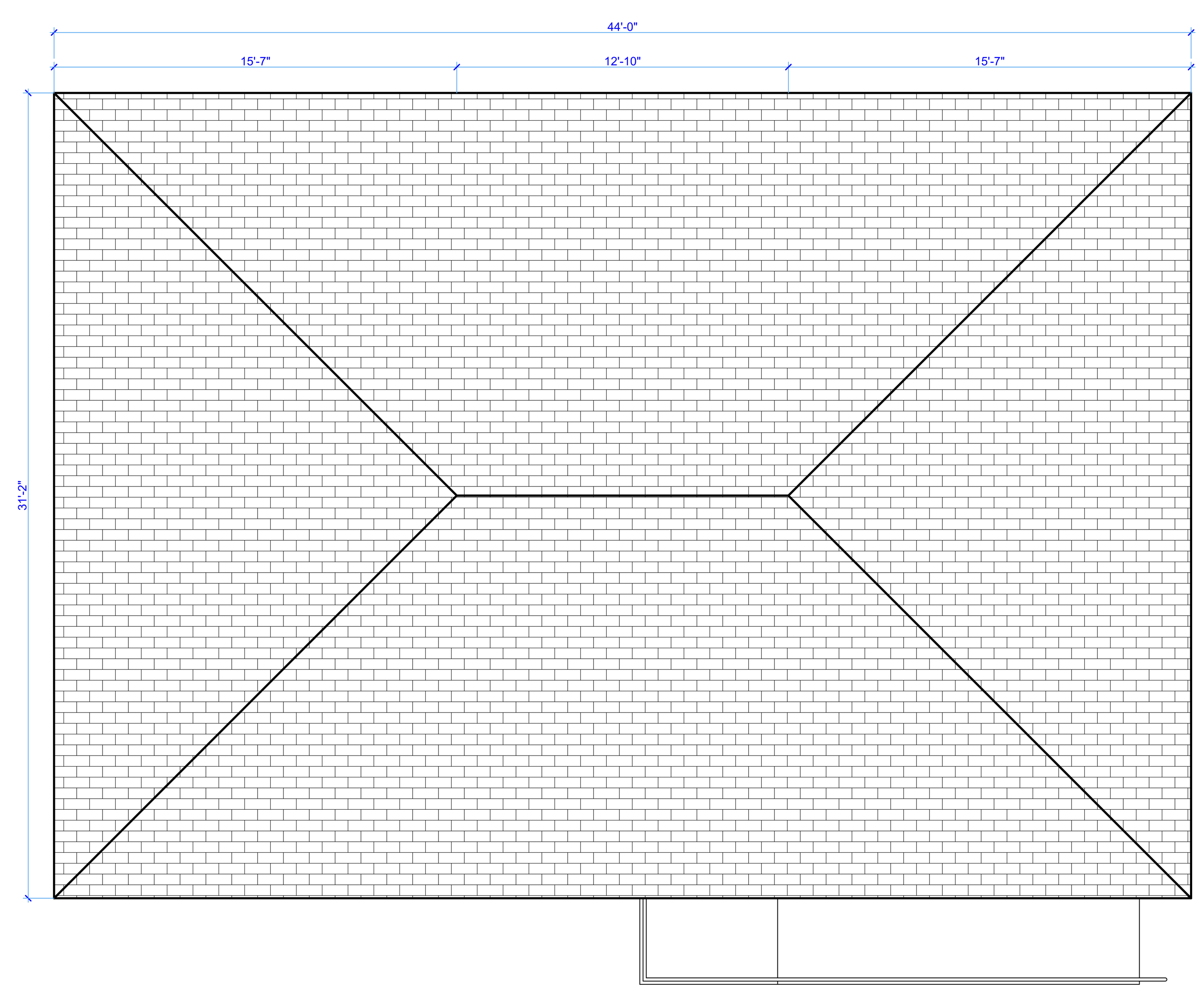
C BENCH SECTION
SCALE: 1 1/2"= 1'-0"



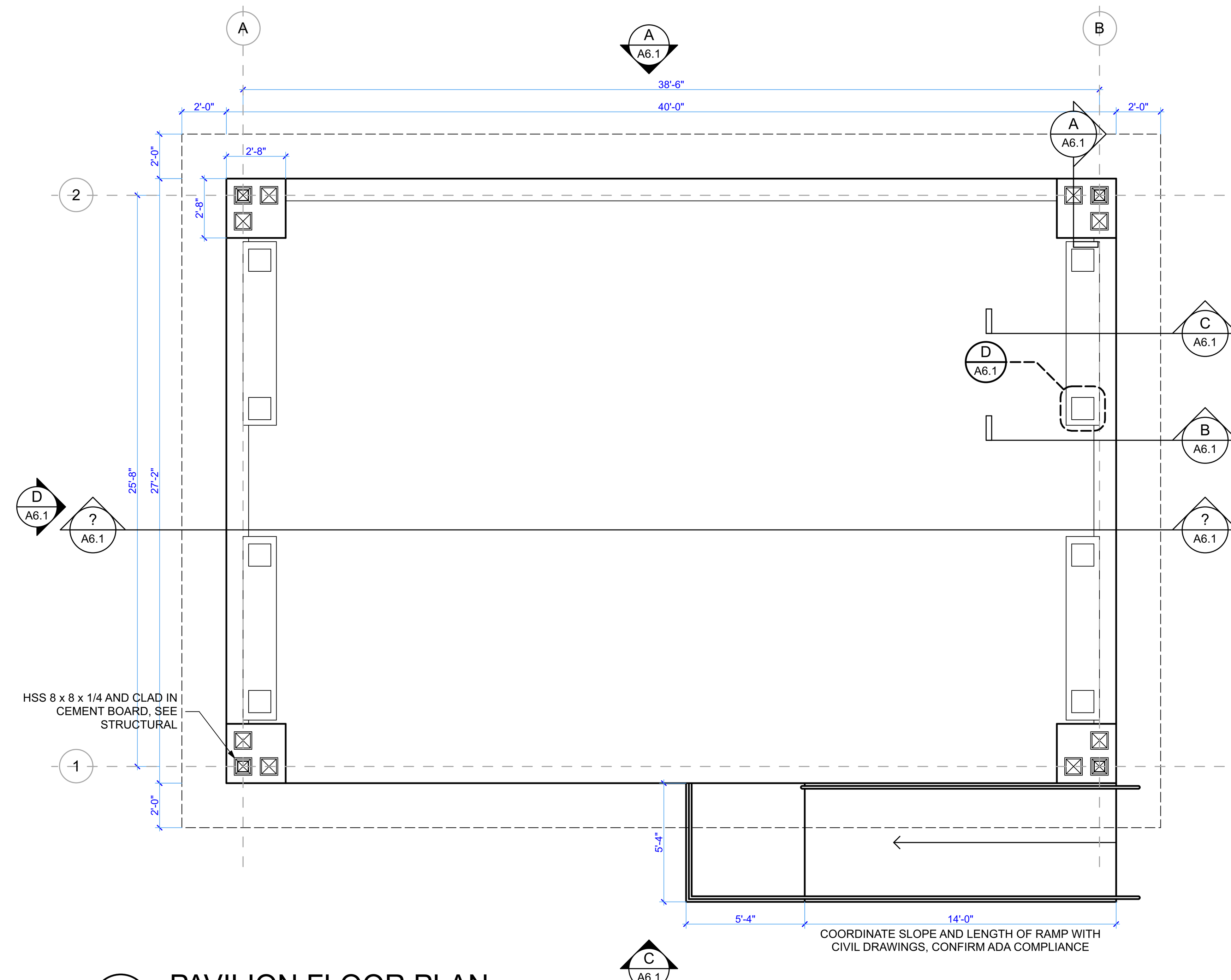
B PAVILION STAIR SECTION
SCALE: 1 1/2"= 1'-0"



3 PAVILION FINISH FLOOR PATTERN PLAN
SCALE: 1/4" = 1'-0"



2 PAVILION ROOF PLAN
SCALE: 1/4" = 1'-0"



1 PAVILION FLOOR PLAN
SCALE: 1/4" = 1'-0"

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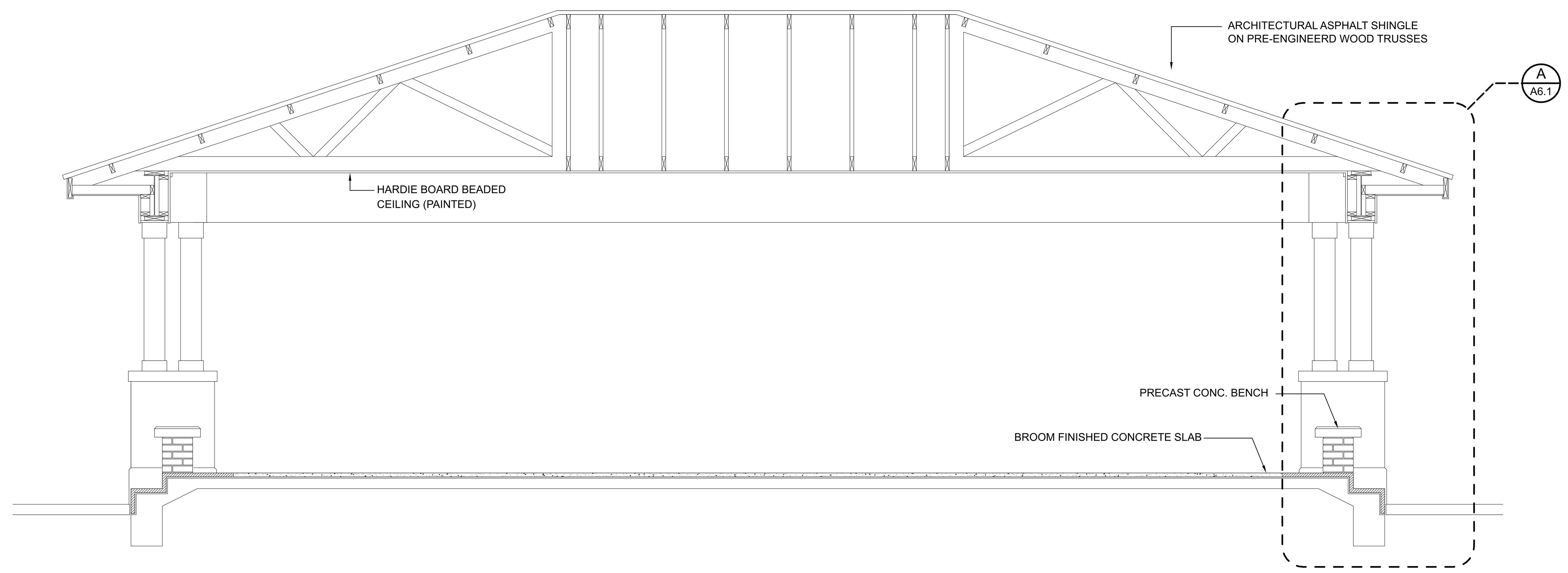
PAVILION PLANS, SECTIONS, AND DETAILS

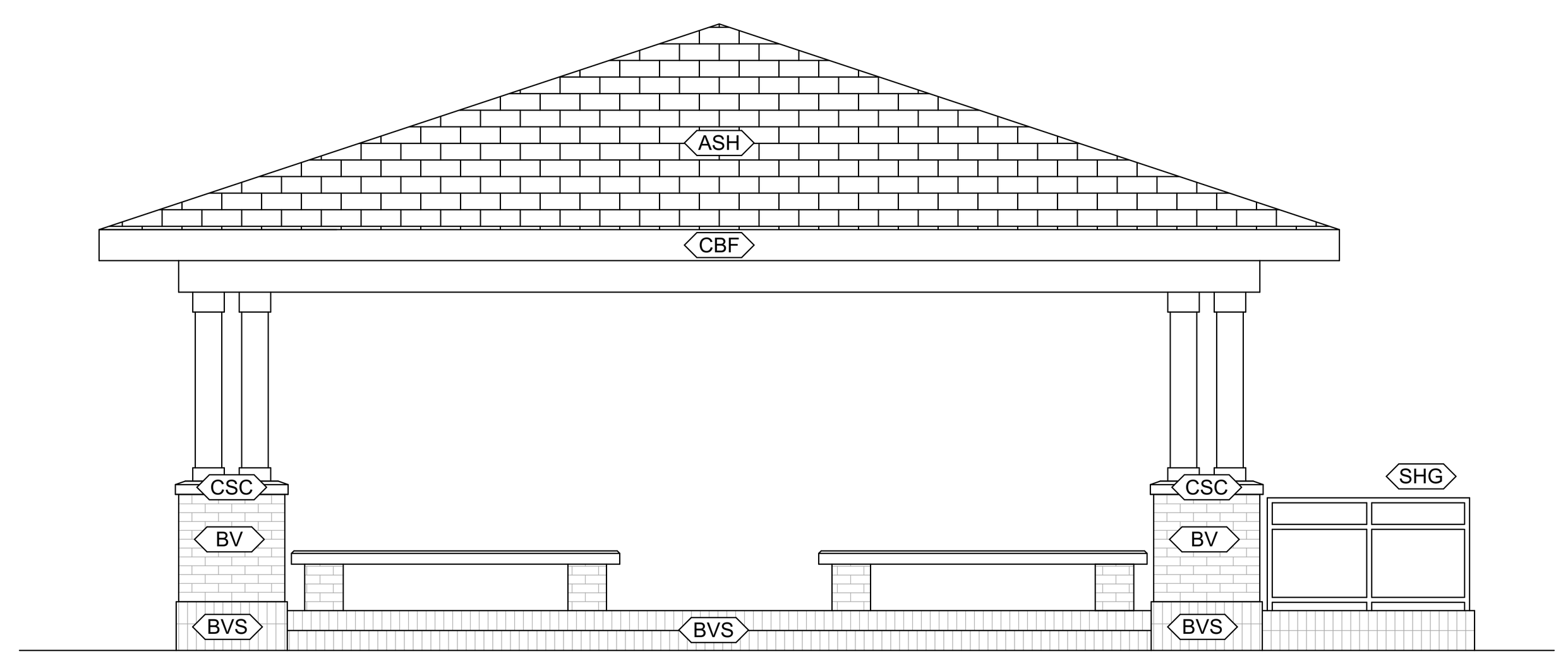
SHEET TITLE
A6.1

EXTERIOR ELEVATION LEGEND

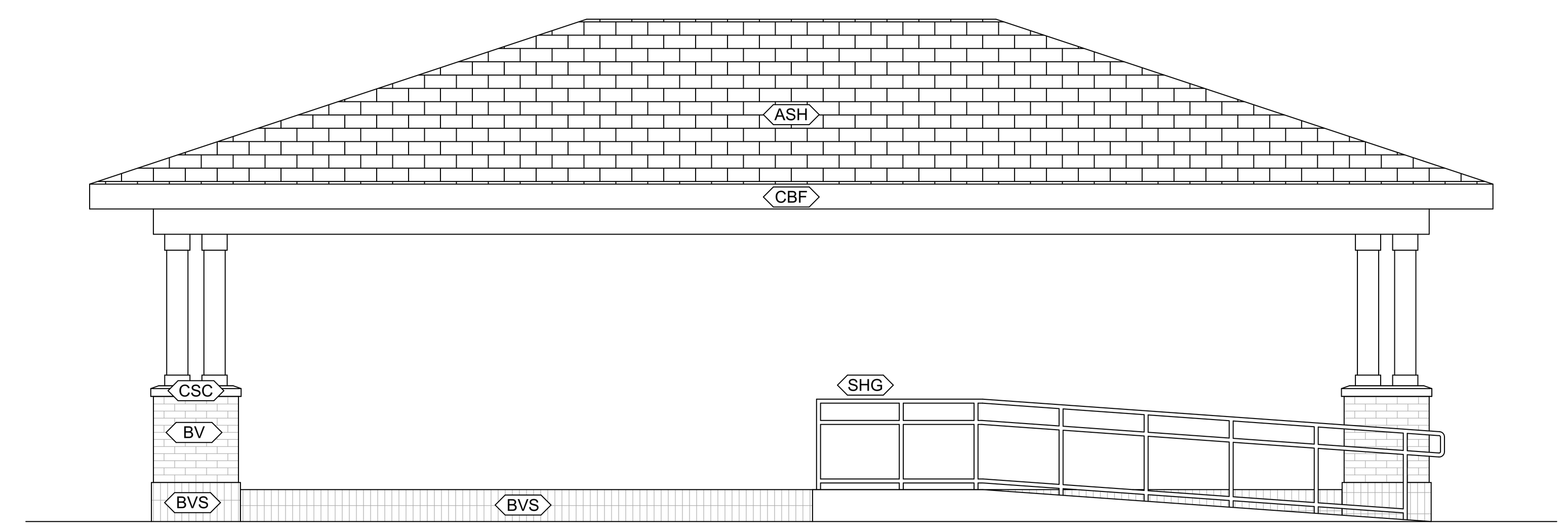
SYMBOL	DESCRIPTION
C / A6.1	BUILDING SECTION SYMBOL
SHG	STEEL HANDRAIL - PAINT
ASH	ARCHITECTURAL ASPHALT SHINGLE
BV	BRICK VENEER
BVS	BRICK VENEER - SOLDIER COURSE
CSC	CAST STONE CAP
CBF	CEMENT BOARD FASCIA



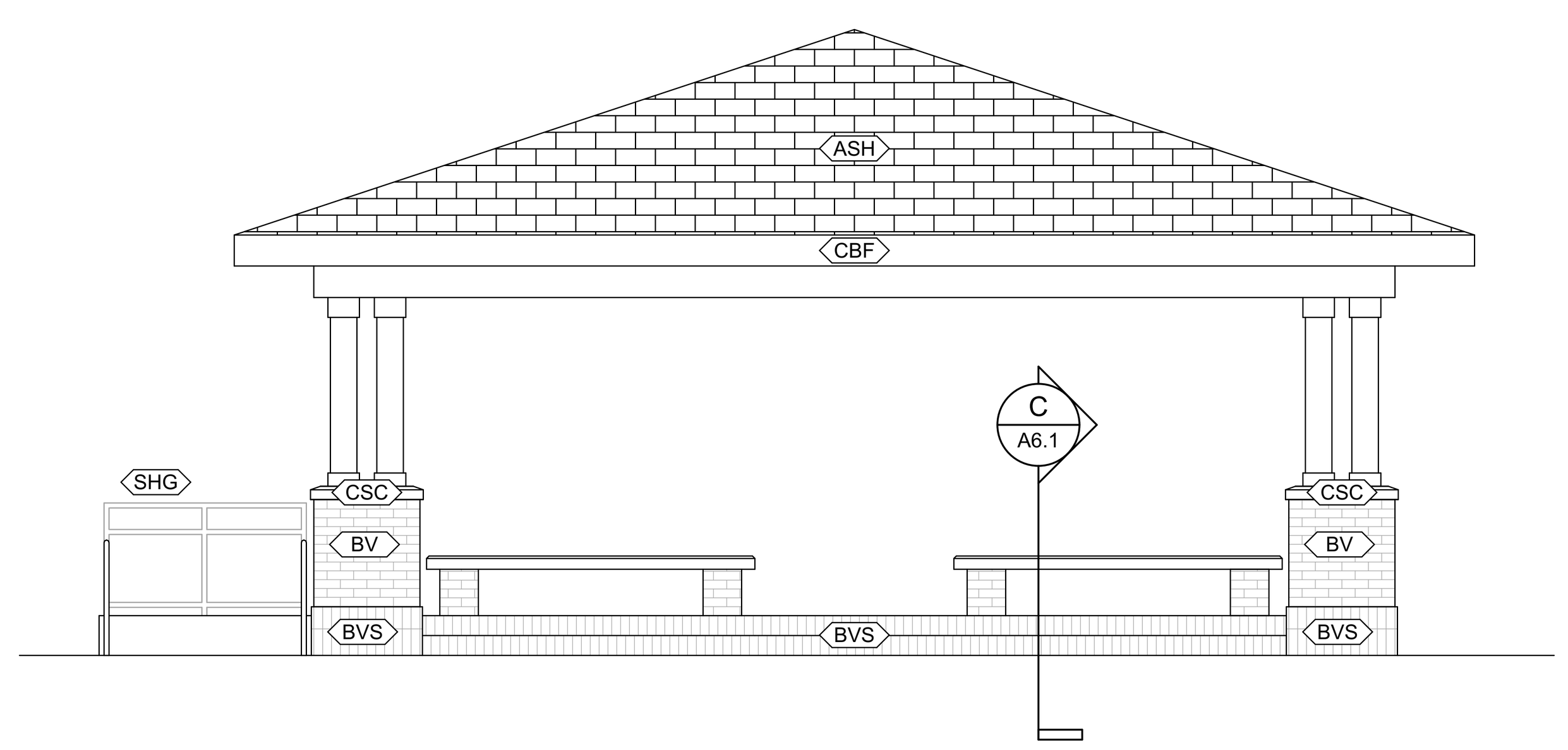
AA PAVILION CROSS SECTION
SCALE: 3/8" = 1'-0"



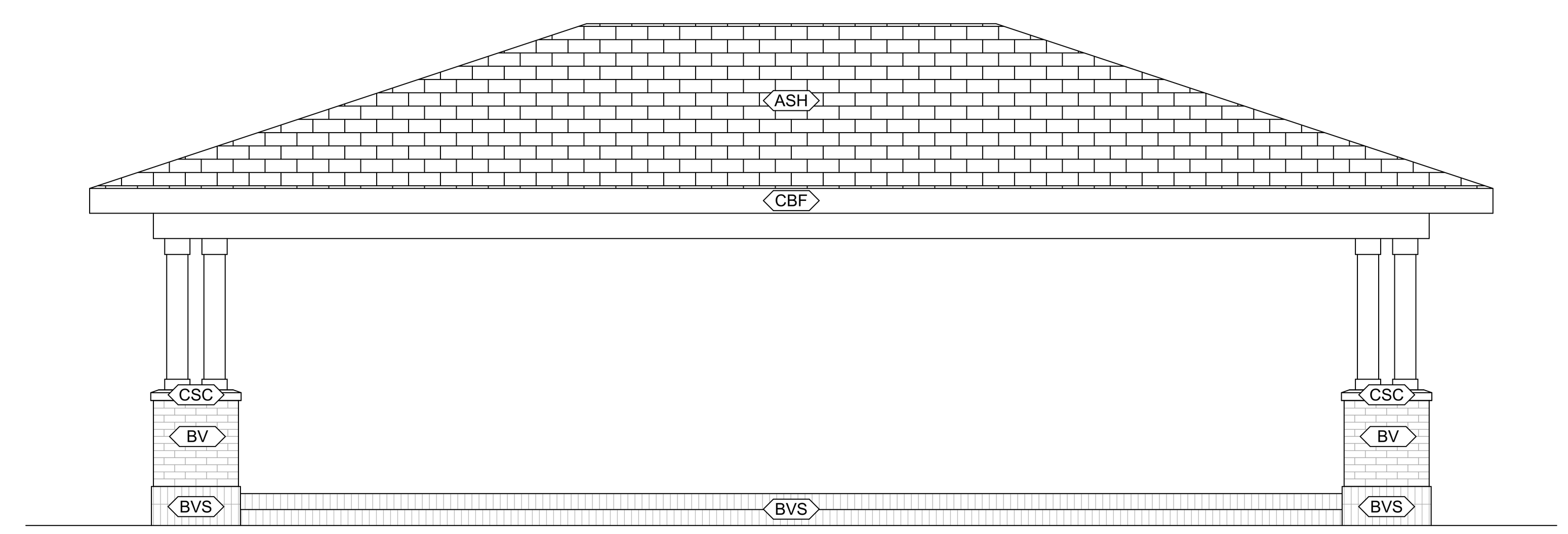
D WEST ELEVATION OF PAVILION
SCALE: 1/4" = 1'-0"



C SOUTH ELEVATION OF PAVILION
SCALE: 1/4" = 1'-0"



B EAST ELEVATION OF PAVILION
SCALE: 1/4" = 1'-0"



A NORTH ELEVATION OF PAVILION
SCALE: 1/4" = 1'-0"

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PAVILION ELEVATIONS AND CROSS SECTION

SHEET TITLE
A6.2

SIGNAGE DETAILS

GENERAL NOTES

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER.
FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED.
FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S), AND HANDICAPPED ACCESS SIGN, TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) - SEE DIAGRAM.

LABELED DOOR AND FRAME NOTES

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED $^{3}/_{16}$ INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

SIGN MOUNTING DIAGRAM

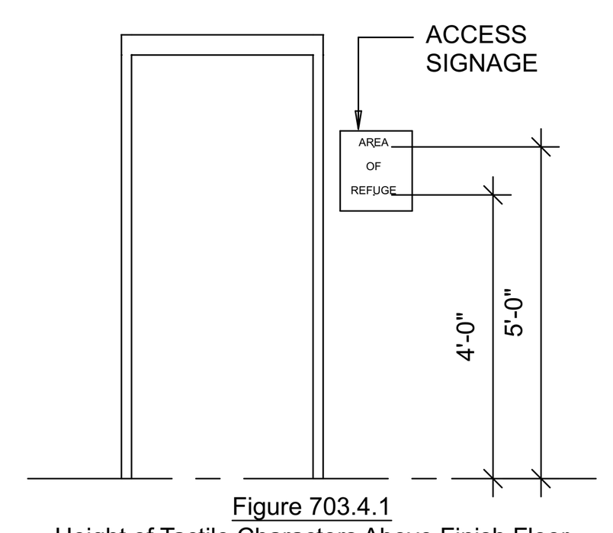


Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

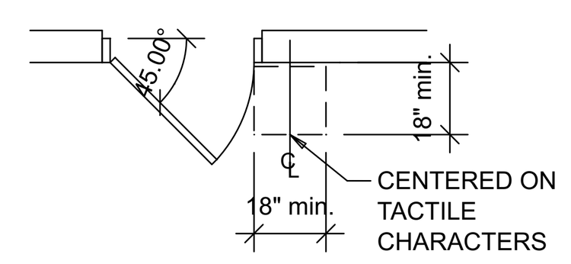
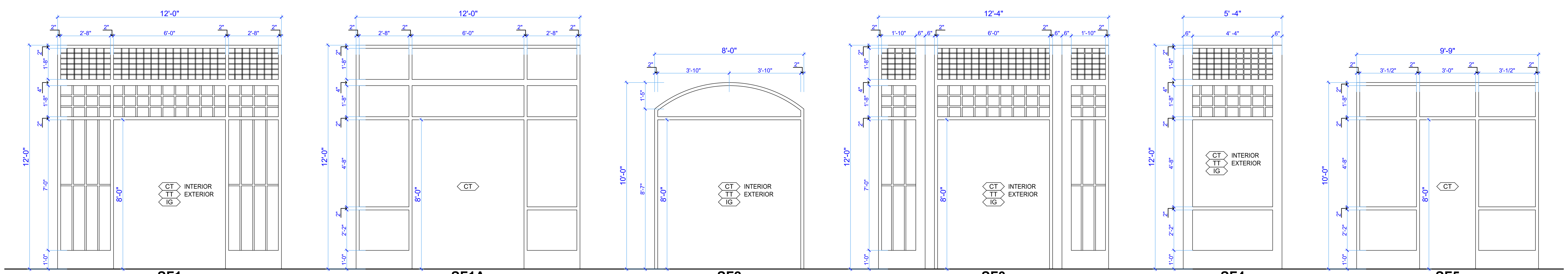


Figure 703.4.2
Location of Tactile Signs at Doors

DOOR SCHEDULE

DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
100a	PAIR 3'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF1	FACTORY	---				PANIC HARDWARE
100b	PAIR 3'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF1A	FACTORY	---				PANIC HARDWARE
101	NA												
102a	PAIR 3'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF3	FACTORY	---				PANIC HARDWARE
102b	---	---	---	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	---				
102c	---	---	---	ALUMINUM STOREFRONT	A	FACTORY	SF4	FACTORY	---				
102d	PAIR 3'-10"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	---				
102e	PAIR 3'-10"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	---				
103a	PAIR 3'-10"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	---				PANIC HARDWARE / DOUBLE ACTING
103b	PAIR 3'-10"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	---				DOUBLE ACTING
103c	PAIR 3'-10"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF2	FACTORY	---				DOUBLE ACTING
104a	3'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF5	FACTORY	---				
104b	3'-0"	8'-0"	1 3/4"	ALUMINUM STOREFRONT	A	FACTORY	SF5	FACTORY	---				
105	NA												
106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM2	PAINT	---				DOUBLE ACTING
107	PAIR 3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	---			STORAGE	
108a	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	---				
108b	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM2	PAINT	---				
109	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	---			WOMEN	
110	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	---			JANITOR	
111	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	C	STAIN	HM2	PAINT	---			MEN	
112	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	---			RESTROOM	
113	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	C	PAINT	HM1	PAINT	---			RESTROOM / ACCESSIBLE	

DOOR HARDWARE SCHEDULE LOCATED IN THE SPECIFICATIONS



SF1 — EXTERIOR APPLIED MUNTIN GRID
SF1A
SF2 — EXTERIOR APPLIED MUNTIN GRID
SF3 — EXTERIOR APPLIED MUNTIN GRID
SF4 — EXTERIOR APPLIED MUNTIN GRID
SF5

TYPICAL STOREFRONT TYPES

SCALE: 3/8" = 1'-0"

GLAZING SCHEDULE

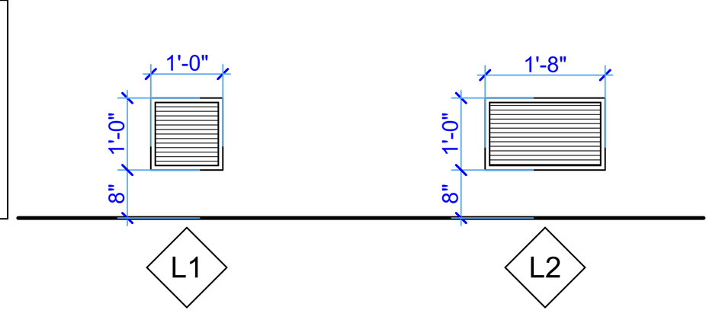
SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
IG	INSULATING GLASS
TT	TINTED TEMPERED

LOUVRE SCHEDULE

L1	DOOR LOUVRE, EXTERIOR RESTROOMS DOORS
L2	DOOR LOUVRE, INTERIOR RESTROOM DOORS

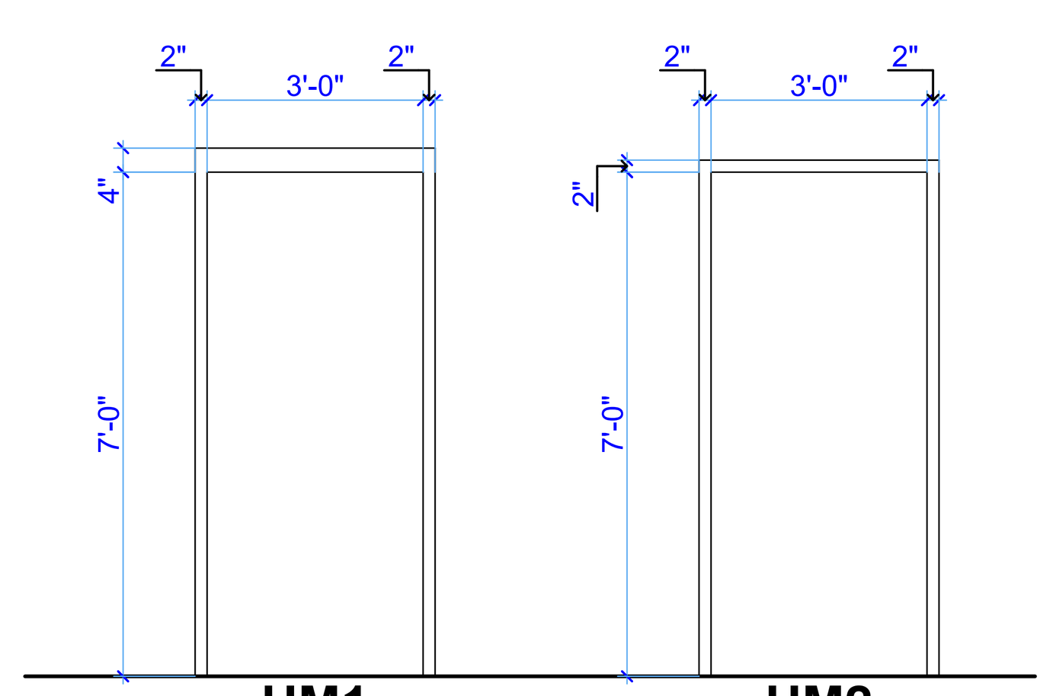
GENERAL NOTES

REFER TO MECHANICAL DRAWINGS AND EXTERIOR ELEVATIONS FOR PLACEMENT OF LOUVERS



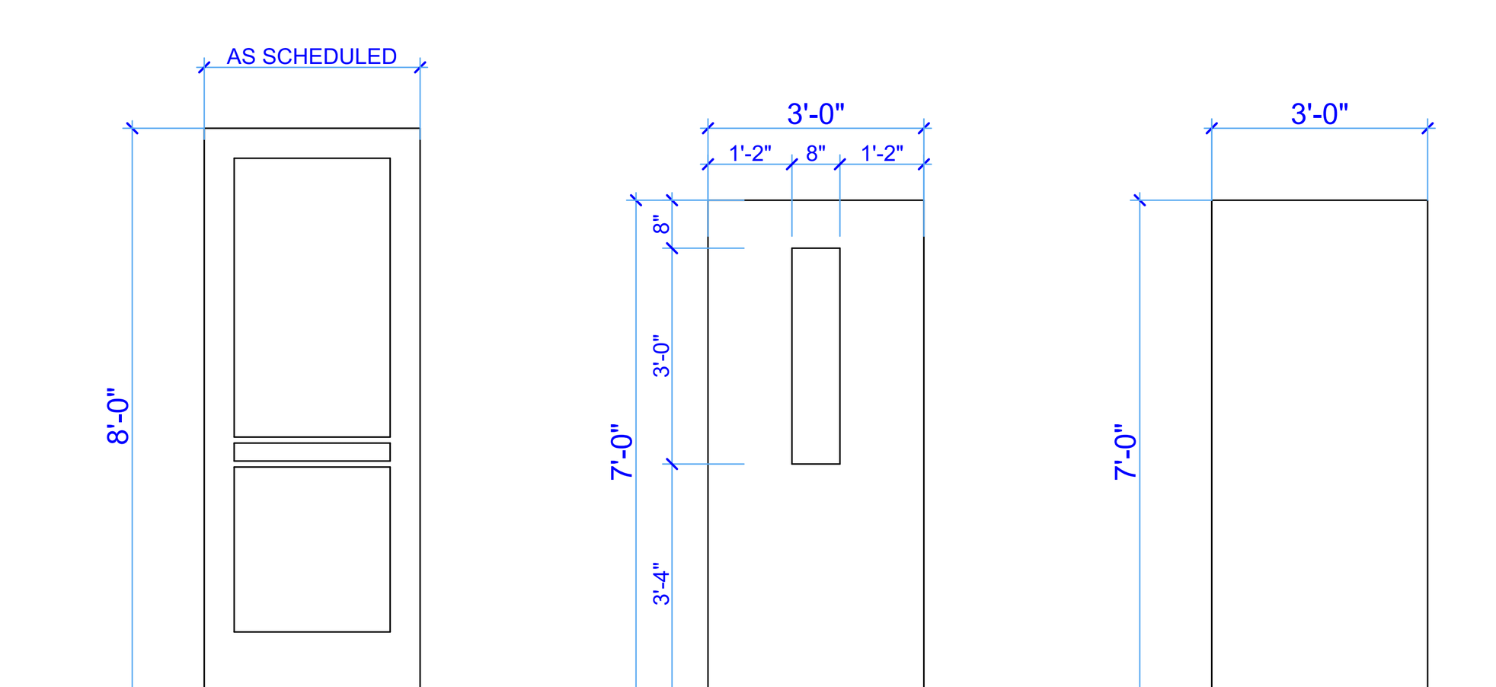
TYPICAL LOUVRE TYPES

SCALE: 3/8" = 1'-0"



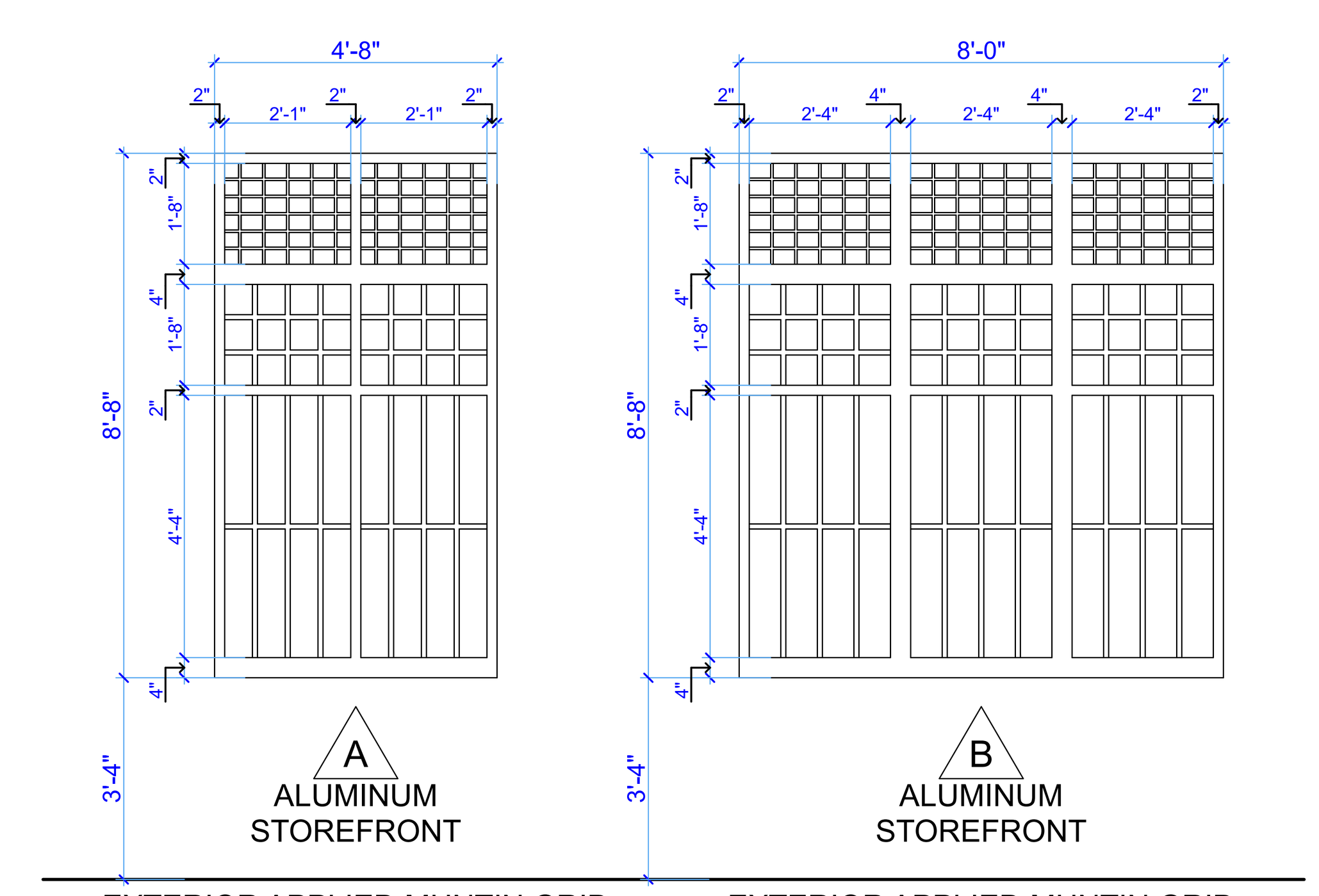
TYPICAL DOOR FRAME TYPES

SCALE: 3/8" = 1'-0"



TYPICAL DOOR TYPES

SCALE: 3/8" = 1'-0"



EXTERIOR APPLIED MUNTIN GRID
EXTERIOR APPLIED MUNTIN GRID

TYPICAL WINDOW TYPES

SCALE: 3/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

CEVIAN DESIGN LAB JOB #
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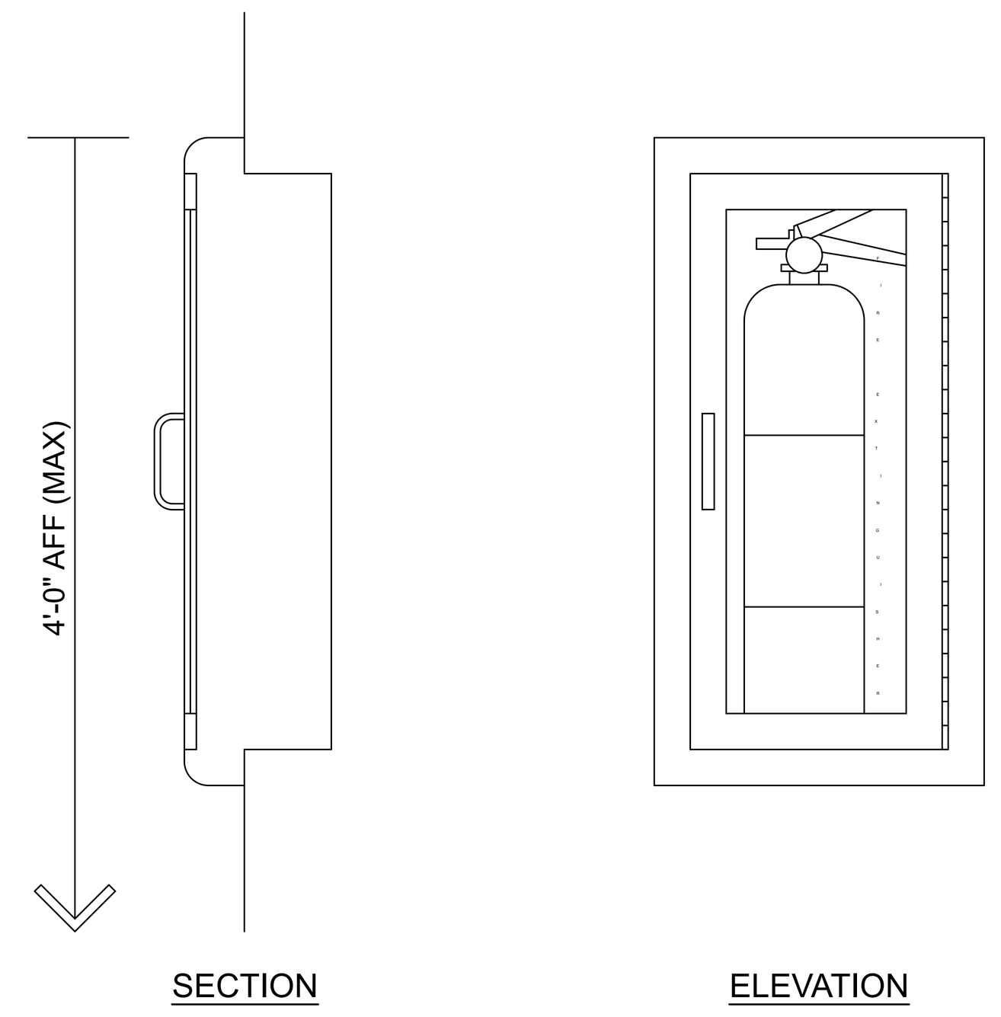
ISSUED DATE
11/11/16

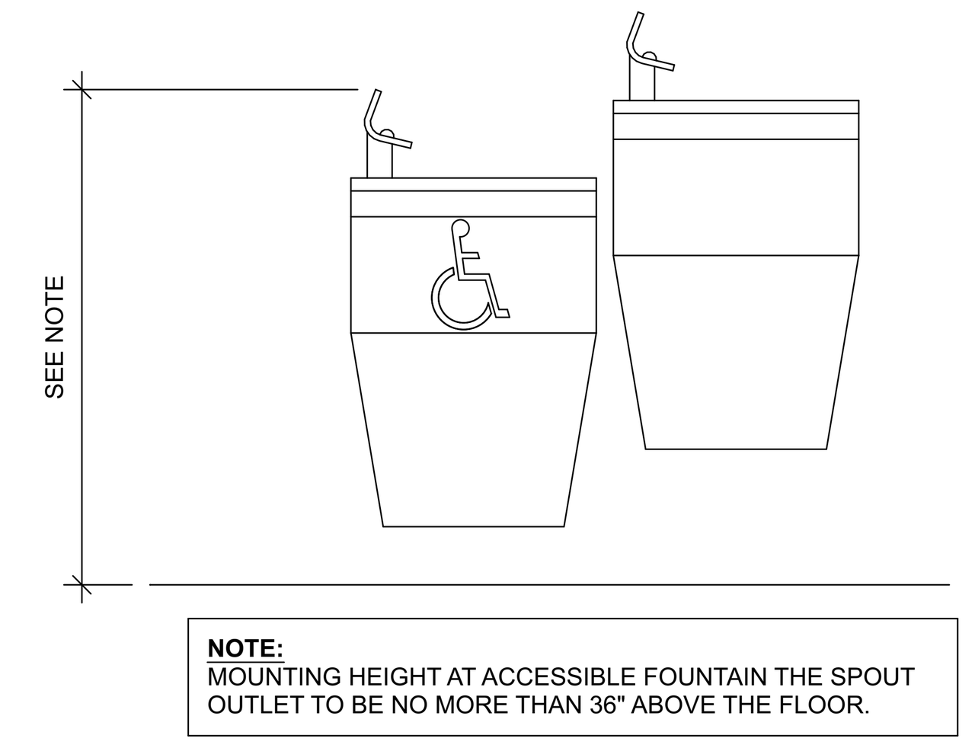
SHEET TITLE
DOOR AND WINDOW SCHEDULES, SIGNAGE DETAILS

SHEET TITLE
A7.1



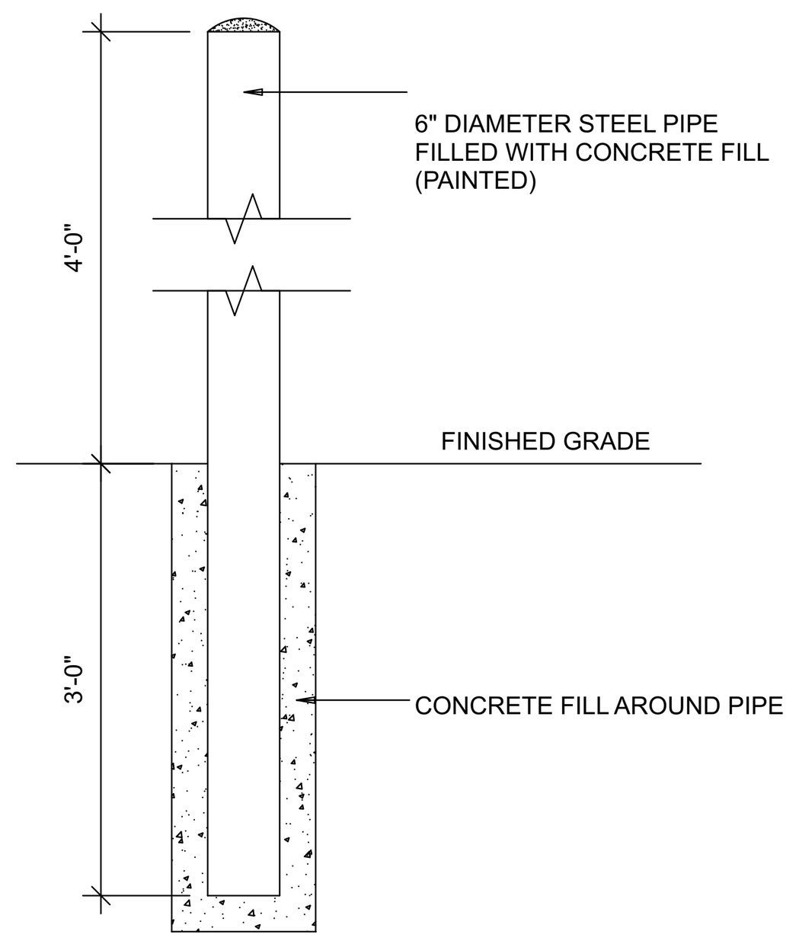
FIRE EXTINGUISHER CABINET (FEC), RECESSED

SCALE: 1 1/2"= 1'-0"



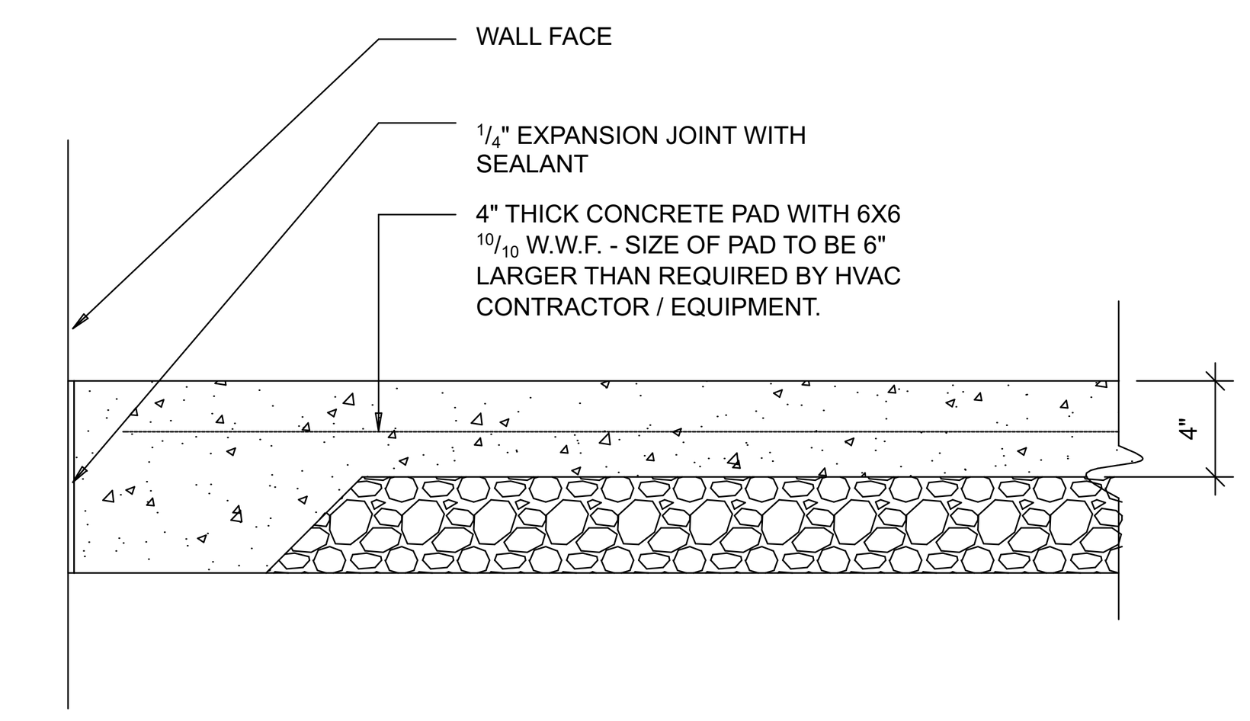
ELECTRIC WATER COOLER (EWC)

SCALE: 1 1/2"= 1'-0"



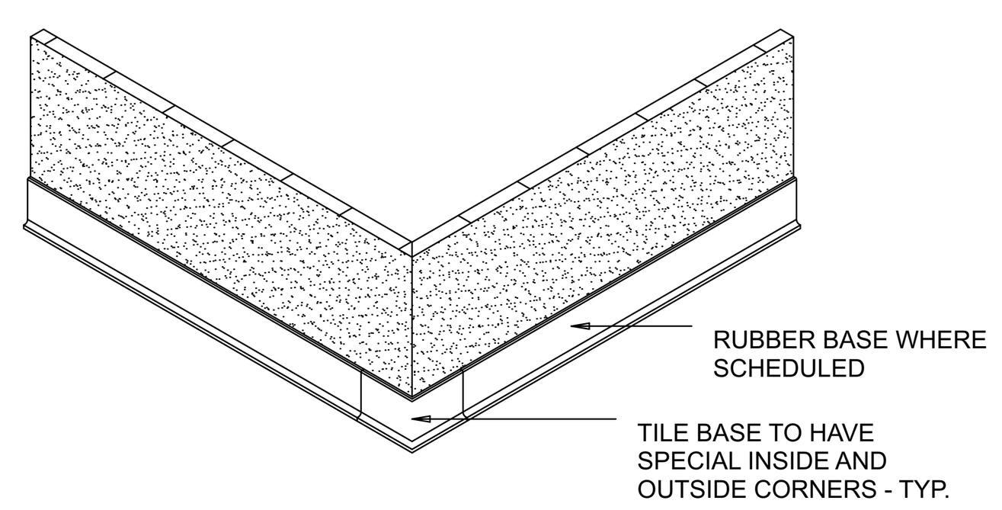
PIPE BOLLARD (PB)

SCALE: 1 1/2"= 1'-0"



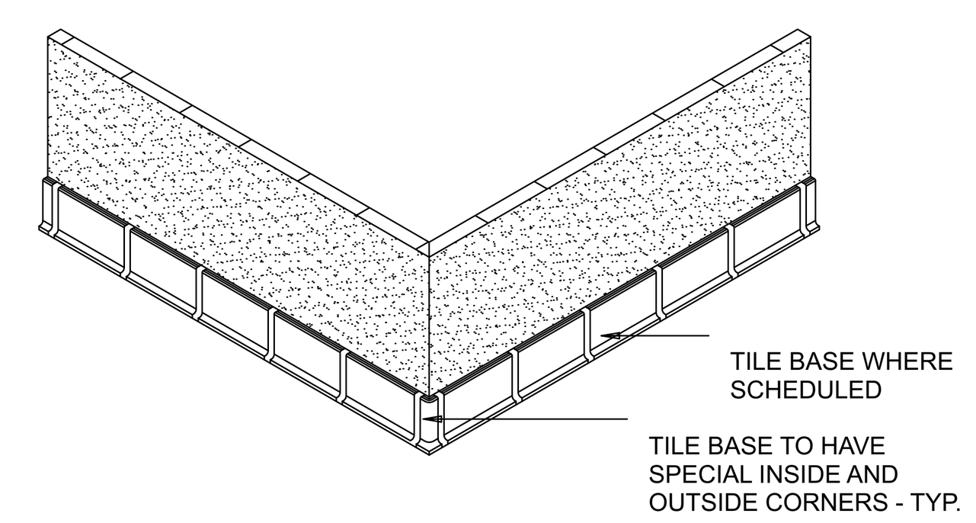
HVAC EQUIPMENT PAD (CEP)

SCALE: 1 1/2"= 1'-0"



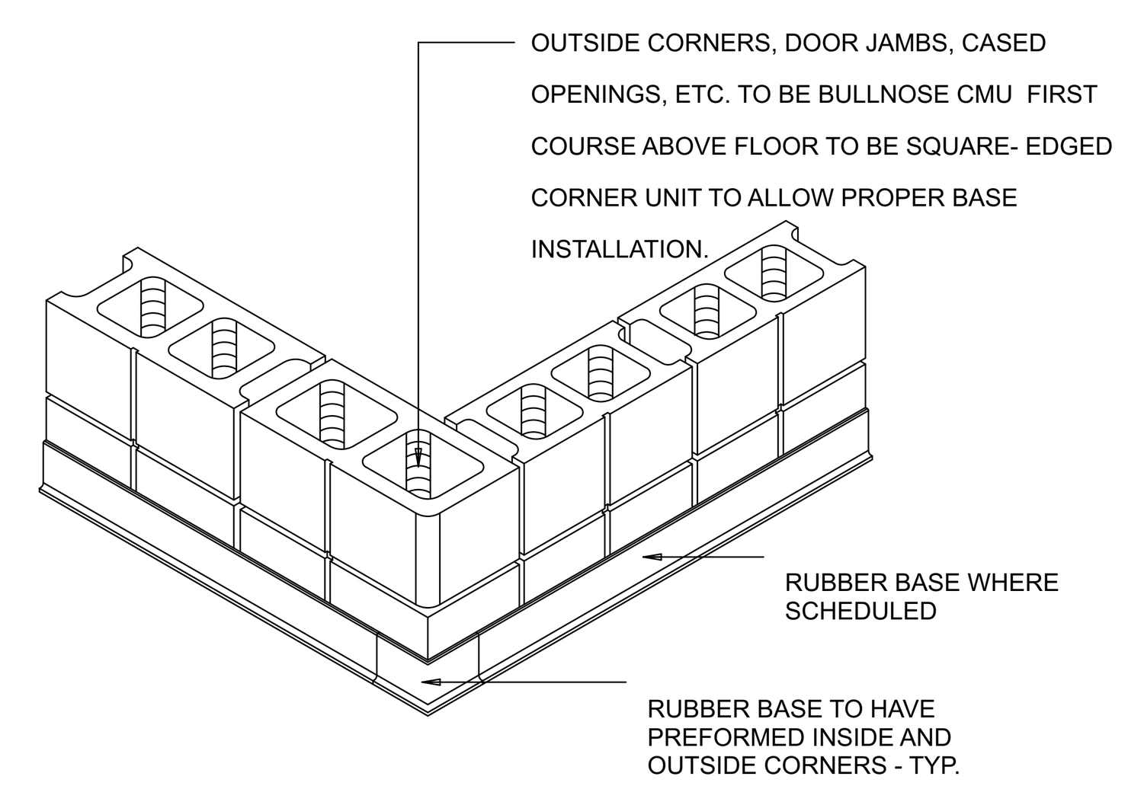
RUBBER BASE DETAIL

SCALE: 1 1/2"= 1'-0"



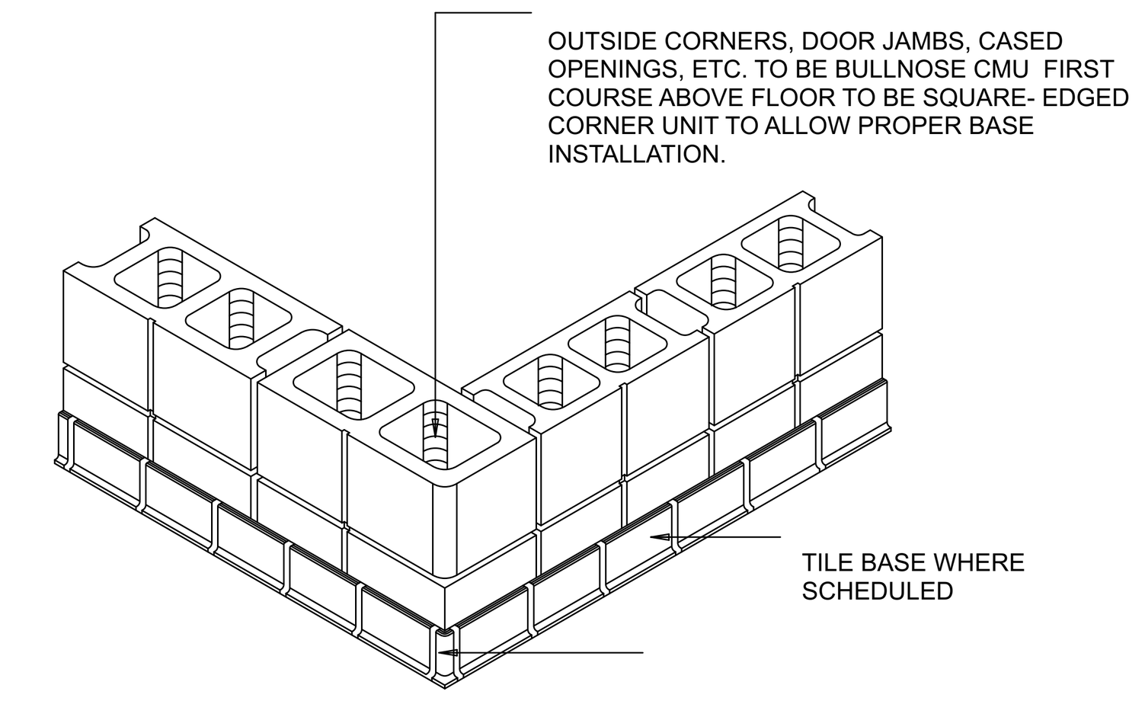
HARD TILE DETAIL

SCALE: 1 1/2"= 1'-0"



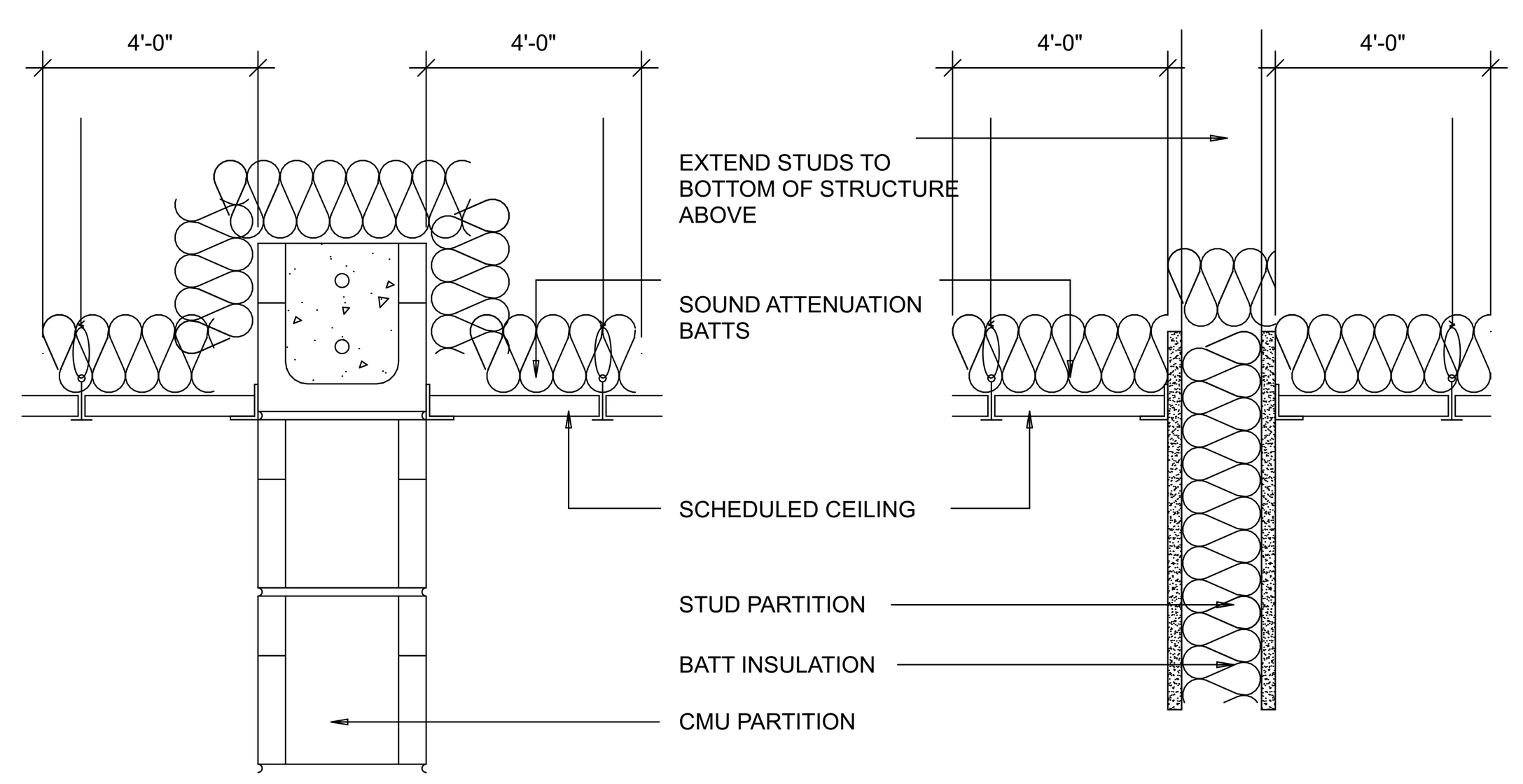
RUBBER BASE DETAIL

SCALE: 1 1/2"= 1'-0"



HARD TILE DETAIL

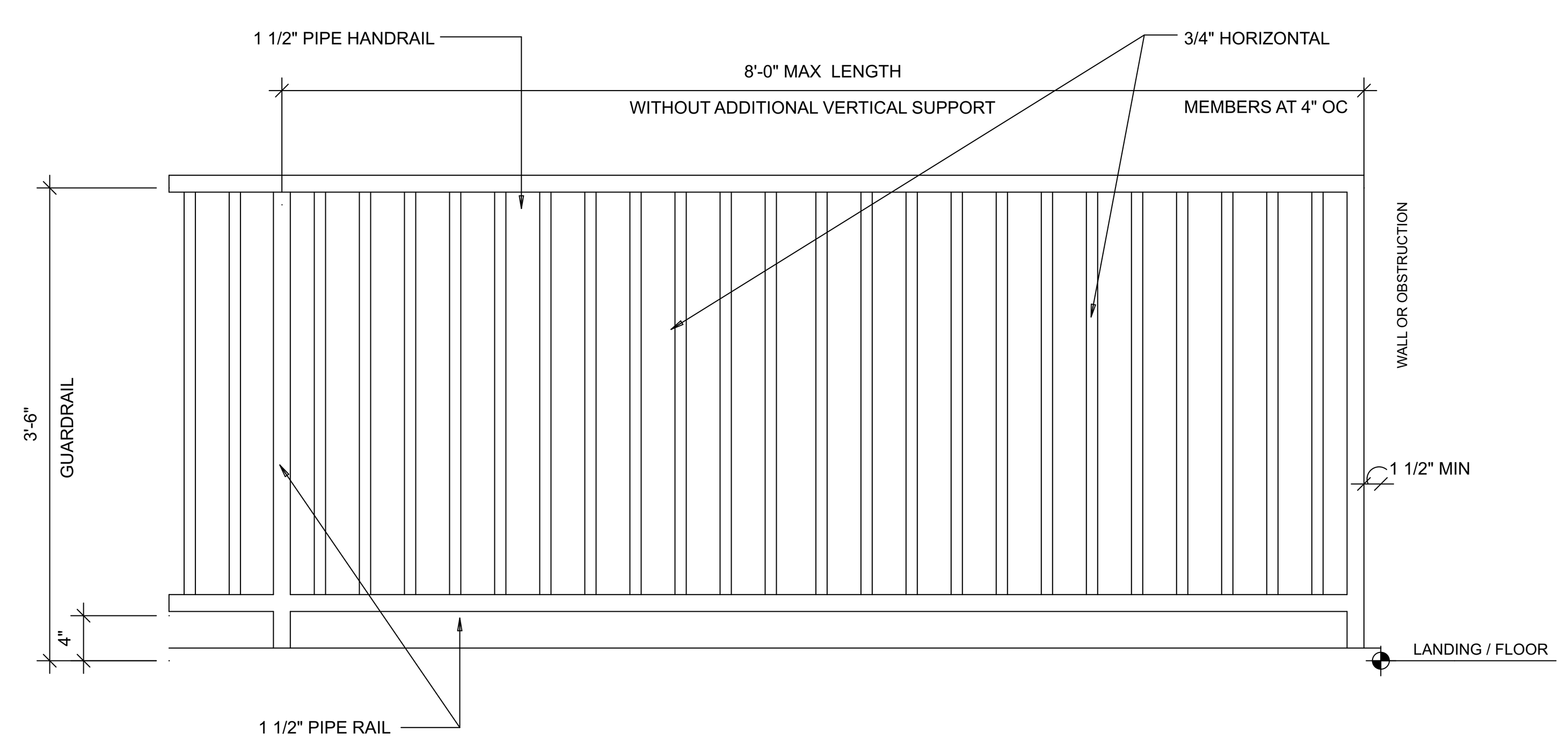
SCALE: 1 1/2"= 1'-0"



NOTE:
SEE FLOOR PLAN SHEETS FOR INTERIOR PARTITIONS DESIGNATED TO RECEIVE BATT INSULATION FULL HEIGHT BETWEEN STUDS. ALL NON-RATED INTERIOR PARTITIONS TO HAVE SOUND BLANKETS ABOVE - TYPICAL. INSTALL SOUND ATTENUATION BLANKETS OVER CEILING PANELS, EXTEND 48 INCHES BEYOND PARTITION and TIGHTLT FIT AROUND ALL GRILLAGE, HANGERS AND OTHER VERTICAL PENETRATIONS. THIS INSULATION TO BE CAREFULLY FIT AROUND -NOT OVER- RECESSED LIGHT FIXTURES.

SOUND BATT ATTENUATION DETAIL (SA)

SCALE: 1 1/2"= 1'-0"



METAL GUARDRAIL AT RETAINING WALL (GR)

SCALE: 1" = 1'-0"

CODE NOTES:

1) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 IN. AND NOT MORE THAN 2 IN. (IBC SEC 1012.3)

2) INTERMEDIATE BALLISTERS, ORNAMENTAL PATTERNS OR PICKETS SHALL BE SPACED SUCH THAT A 4 IN. DIAMETER SPHERE SHALL NOT PASS THROUGH ANY OPENING. (IBC SEC 1013.3)

3) WALL HANDRAILS SHALL BE RETURNED TO THE WALL. THEY SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, AT LEAST 12 IN. BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DEPTH OF ONE TREAD BEYOND THE FIRST RISER. (IBC SEC 1012.5)

GENERAL NOTES:

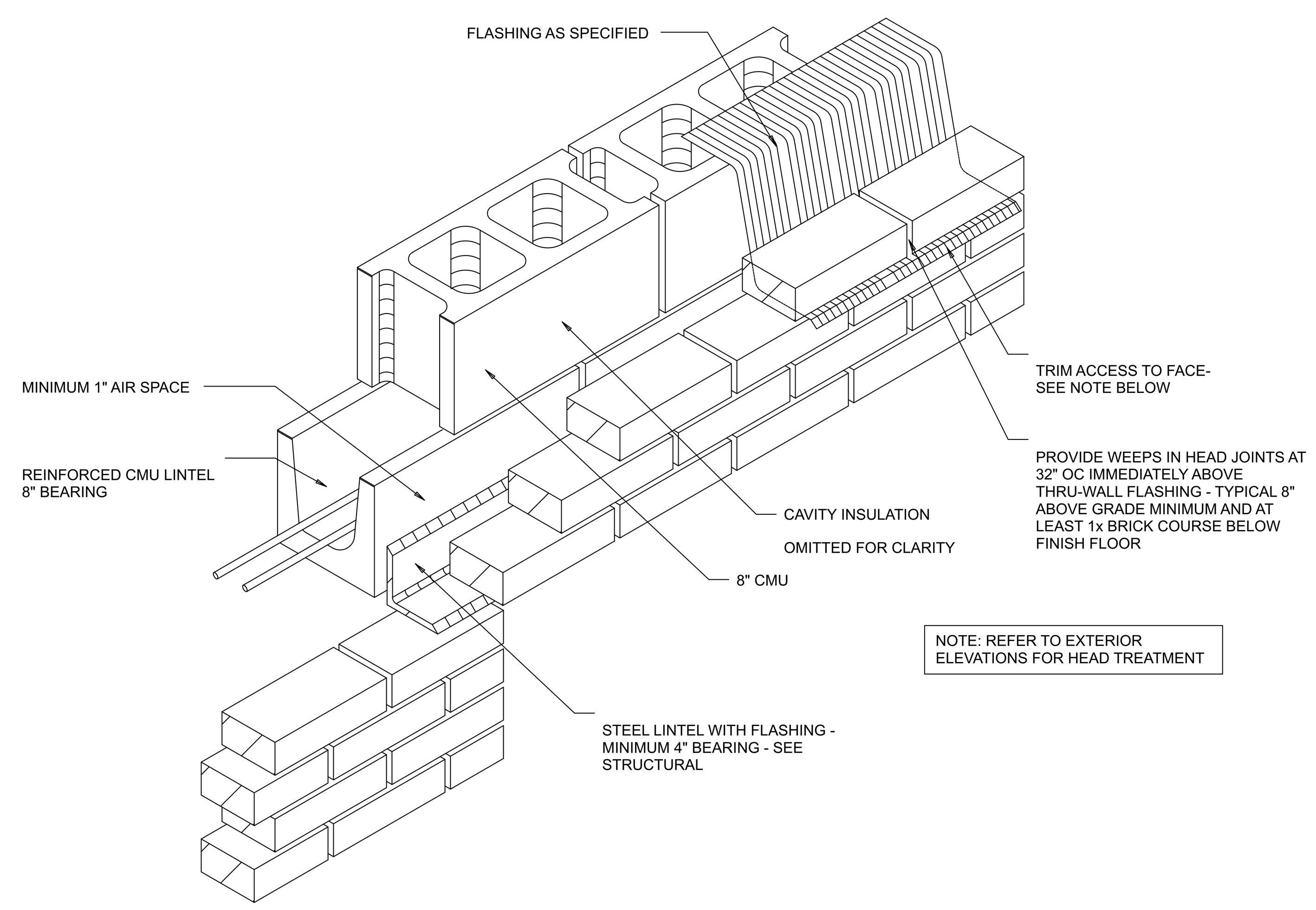
1) ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY W/ THE AMERICAN WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE.

2) ALL WELDS ON METAL STAIRS ARE TO BE GROUND SMOOTH.

3) PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.

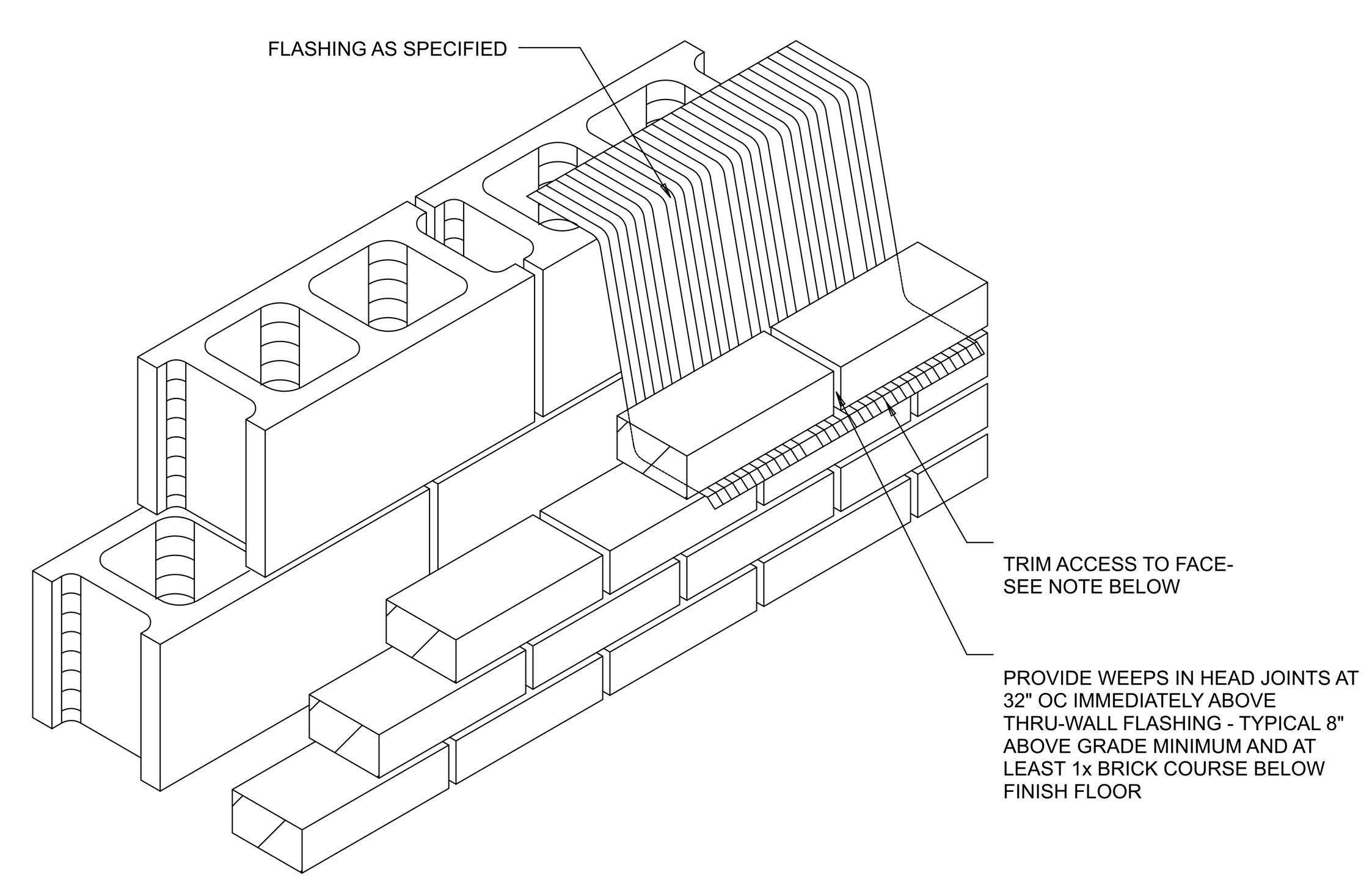
4) FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.

5) ALL RAILING COMPOSITIONS ARE TO BE EQUALLY SPACED ALONG A CONTINUOUS RUN. THE COMPOSITIONS ARE TO BE CENTERED WITHIN EACH PANEL-TYP. SEE PLANS FOR ADDITIONAL INFO.



MASONRY LINTEL DETAIL

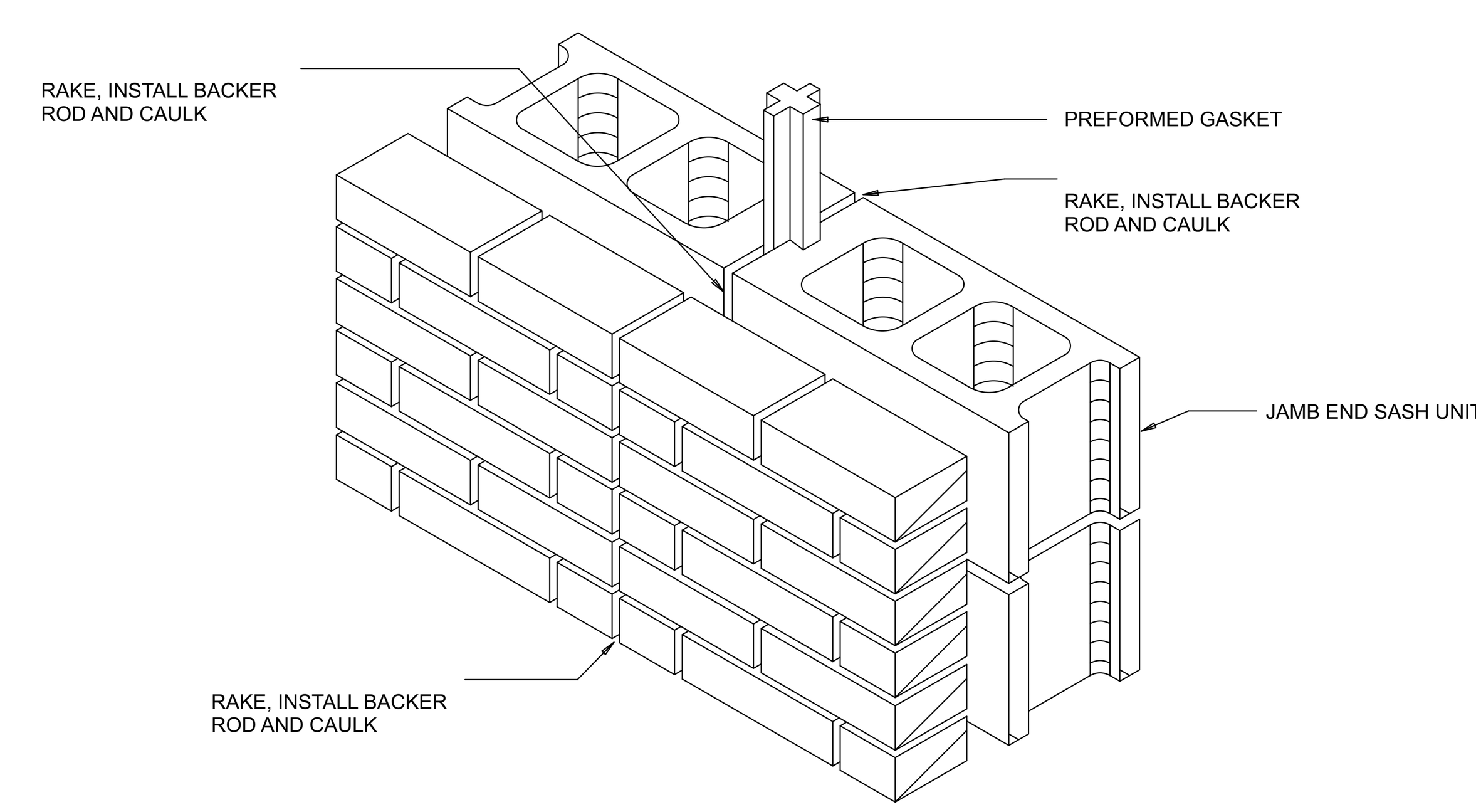
SCALE: 1 1/2"= 1'-0"



NOTE: BRICK INSTITUTE OF AMERICA TECHNICAL NOTE # 7 STATES THAT ALL FLASHING MUST EXTEND PAST THE EXTERIOR FACE OF THE MASONRY OR BE CUT FLUSH WITH THE EXTERIOR MASONRY. CUT FABRIC TYPE FLASHING FLUSH WITH THE EXTERIOR FACE OF MASONRY AFTER BEING LEFT EXPOSED FOR INSPECTION PURPOSES ONLY.

THRU-WALL FLASHING DETAIL

SCALE: 1 1/2"= 1'-0"



MASONRY CONTROL JOINT DETAIL (MCJ)

SCALE: 1 1/2"= 1'-0"

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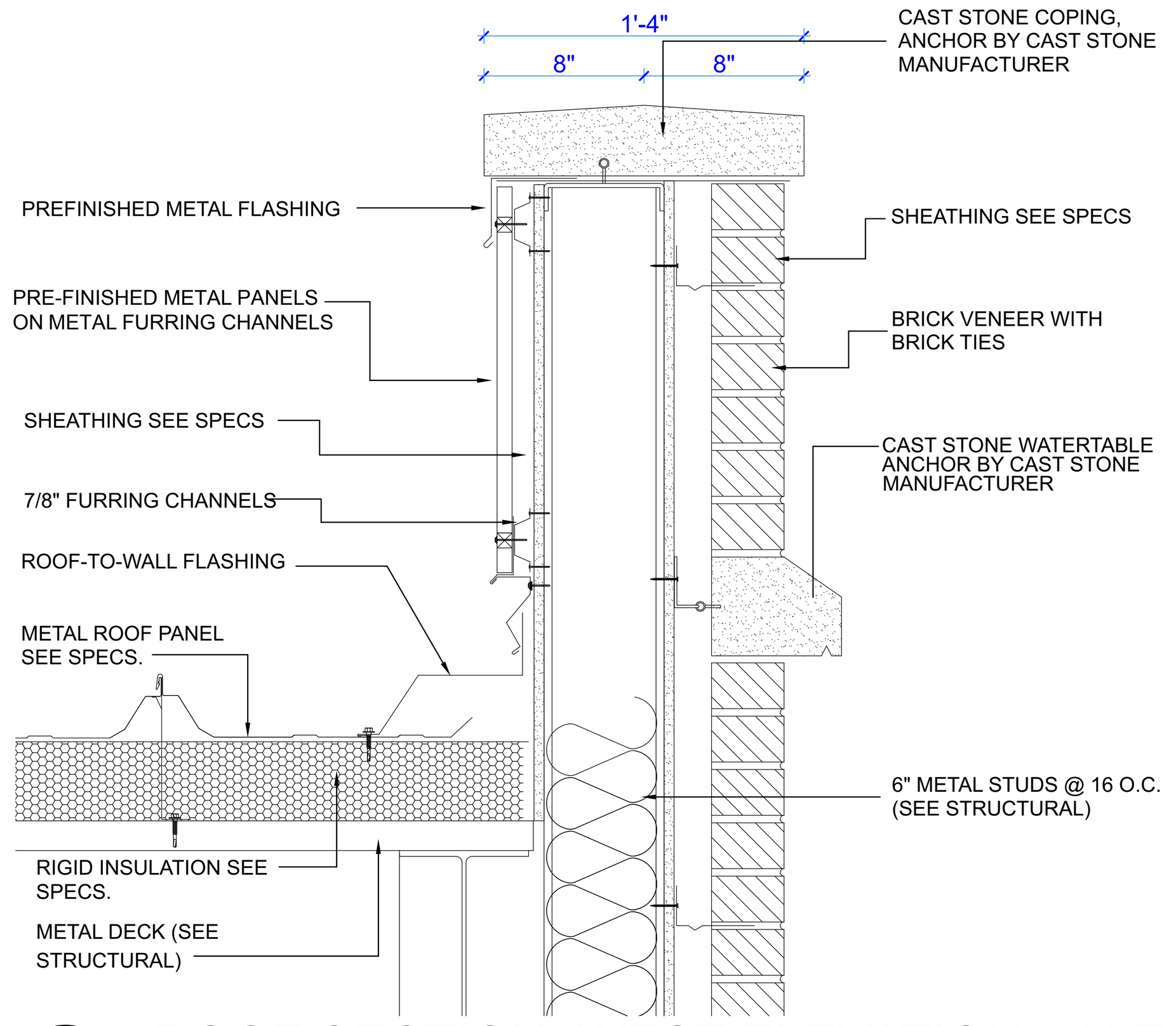
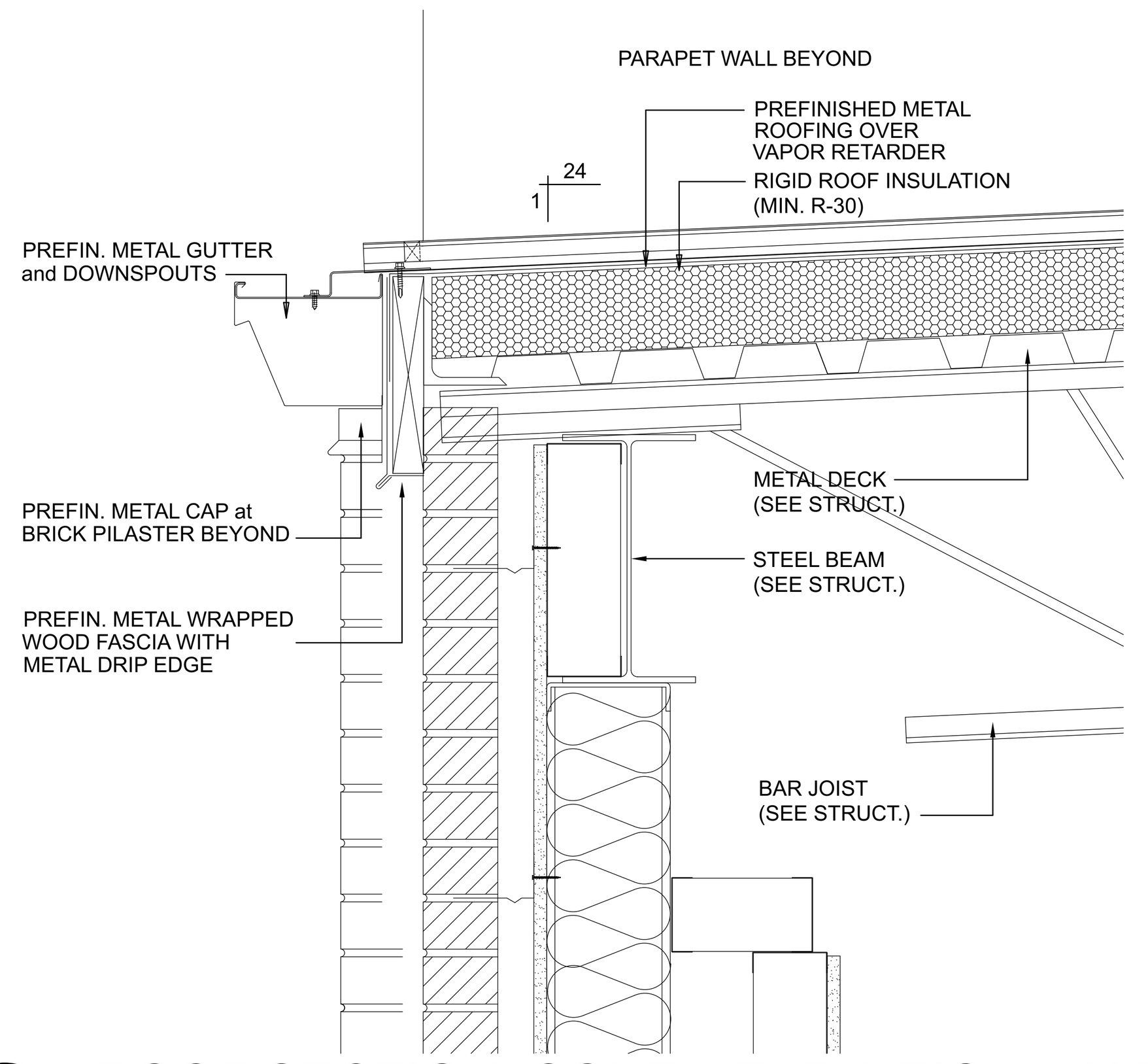
SHEET TITLE
MISCELLANEOUS DETAILS

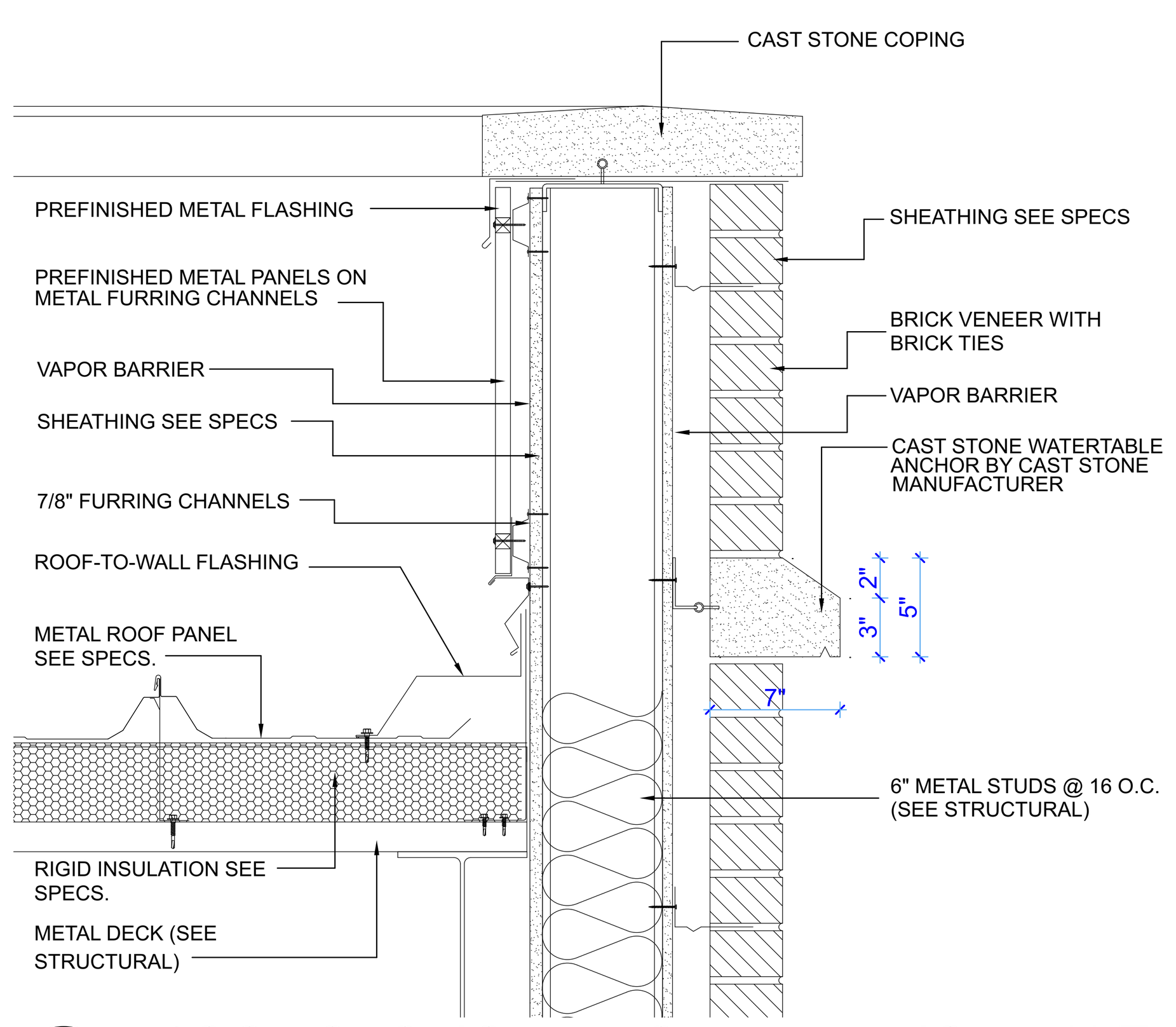
SHEET TITLE
A8.1



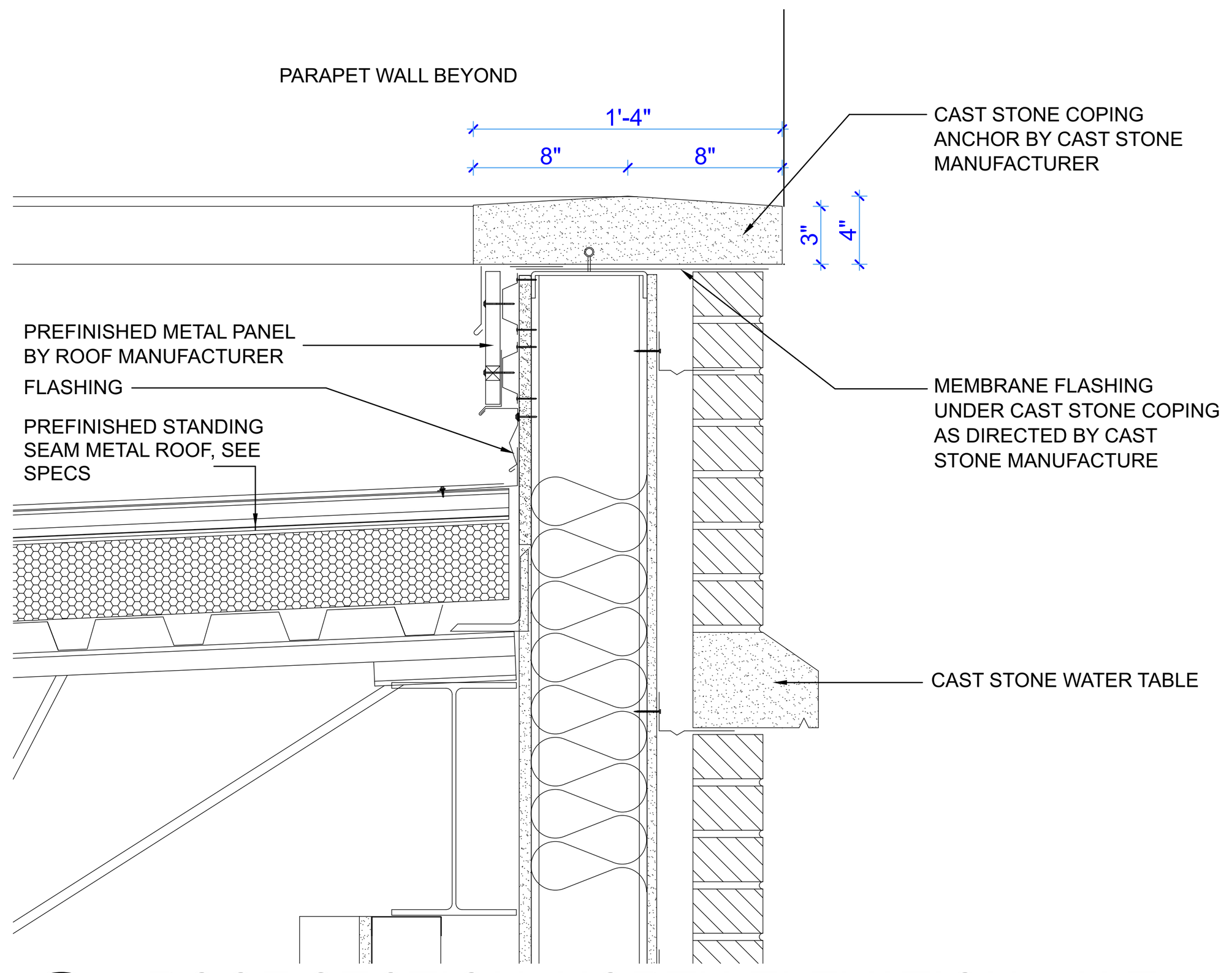
D ROOF SECTION, WEST ELEVATION - ALT
SCALE: 1 1/2"= 1'-0"



C ROOF SECTION, SOUTH ELEVATION - ALT
SCALE: 1 1/2"= 1'-0"



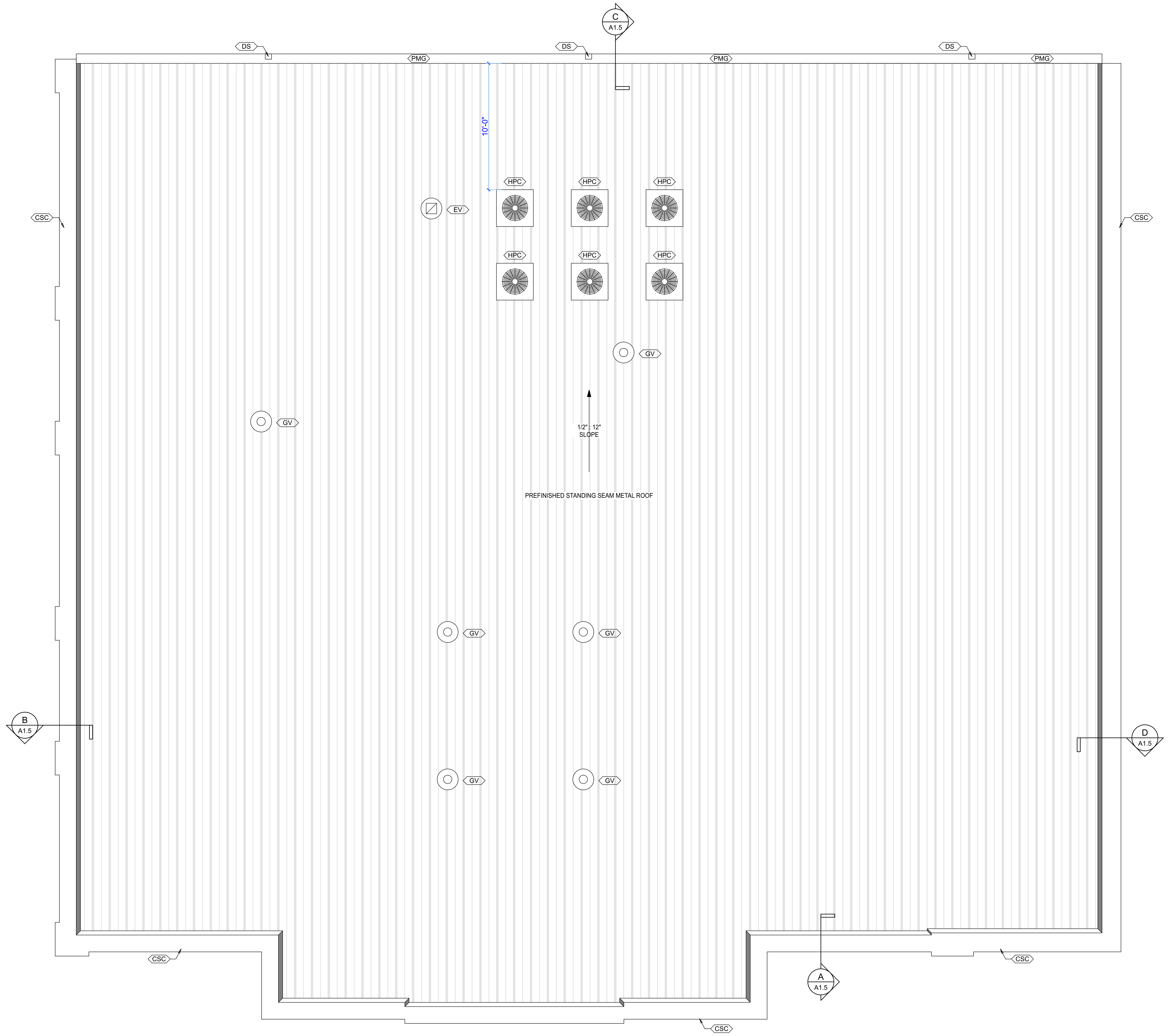
B ROOF SECTION, EAST ELEVATION - ALT
SCALE: 1 1/2"= 1'-0"



A ROOF SECTION, NORTH ELEVATION - ALT
SCALE: 1 1/2"= 1'-0"

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
MRP	STANDING SEAM METAL ROOF - SEE SPECIFICATIONS
C / A1.5	SECTION SYMBOL
PMG	PREFINISHED METAL GUTTER
CSC	CAST STONE COPING
HPC	HEAT PUMP - CONDENSER
DS	PREFINISHED METAL DOWNSPOUT
EV	EXHAUST VENT
GV	GAS VENT



1 ROOF PLAN - ALTERNATE
SCALE: 1/4" = 1'-0"

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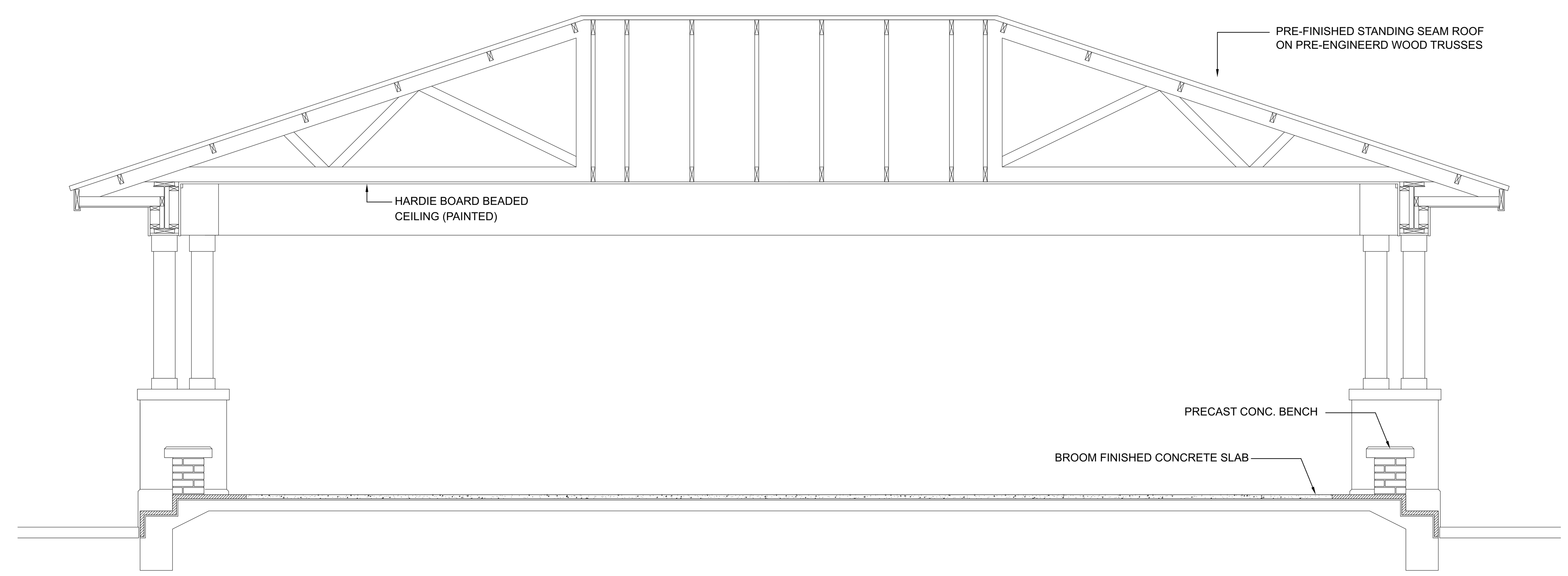
SHEET TITLE
METAL ROOF SYSTEM AT EVENT CENTER - ALTERNATE

SHEET TITLE
A9.1

EXTERIOR ELEVATION LEGEND

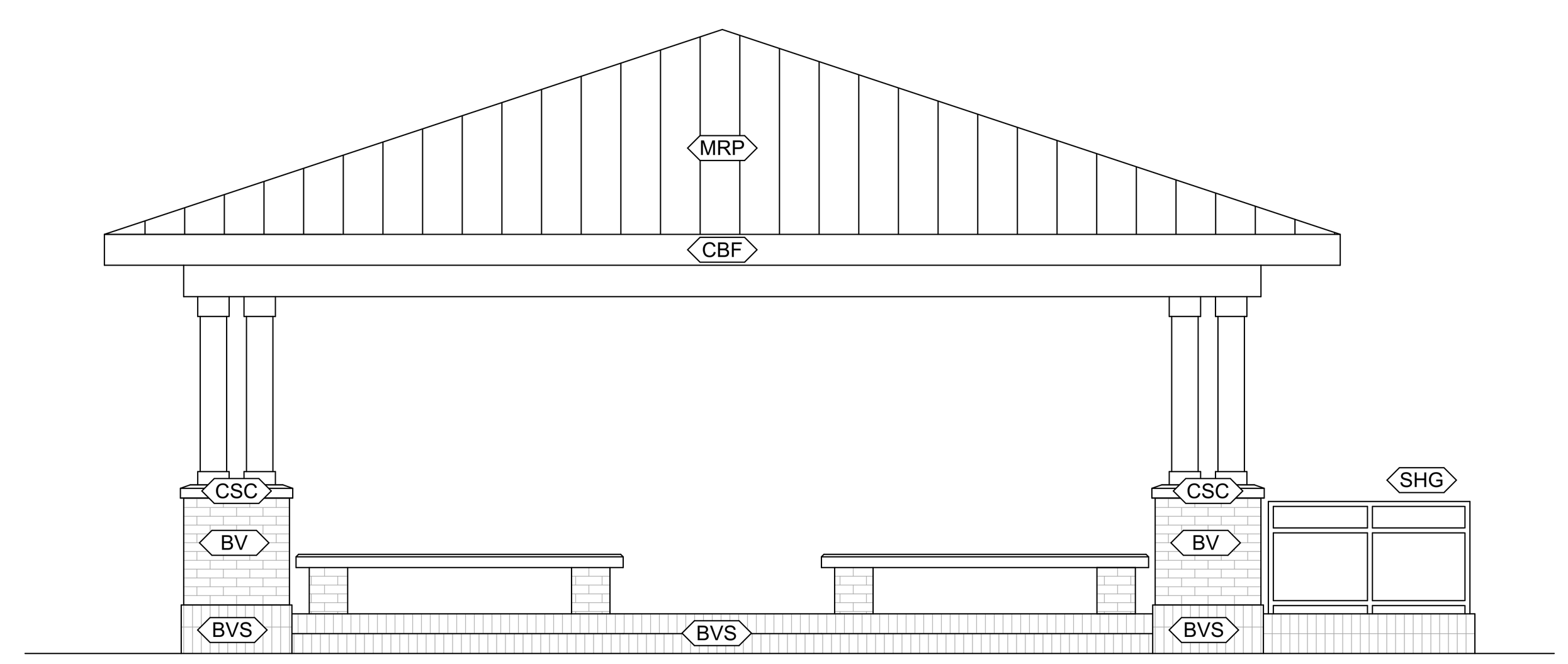
SYMBOL	DESCRIPTION
C / A6.1	BUILDING SECTION SYMBOL
SHG	STEEL HANDRAIL - PAINT
MRP	METAL ROOF PANELS - STANDING SEAM
BV	BRICK VENEER
BVS	BRICK VENEER - SOLDIER COURSE
CSC	CAST STONE CAP
CBF	CEMENT BOARD FASCIA



AA PAVILION CROSS SECTION - ROOF ALTERNATE

SCALE: 3/8" = 1'-0"

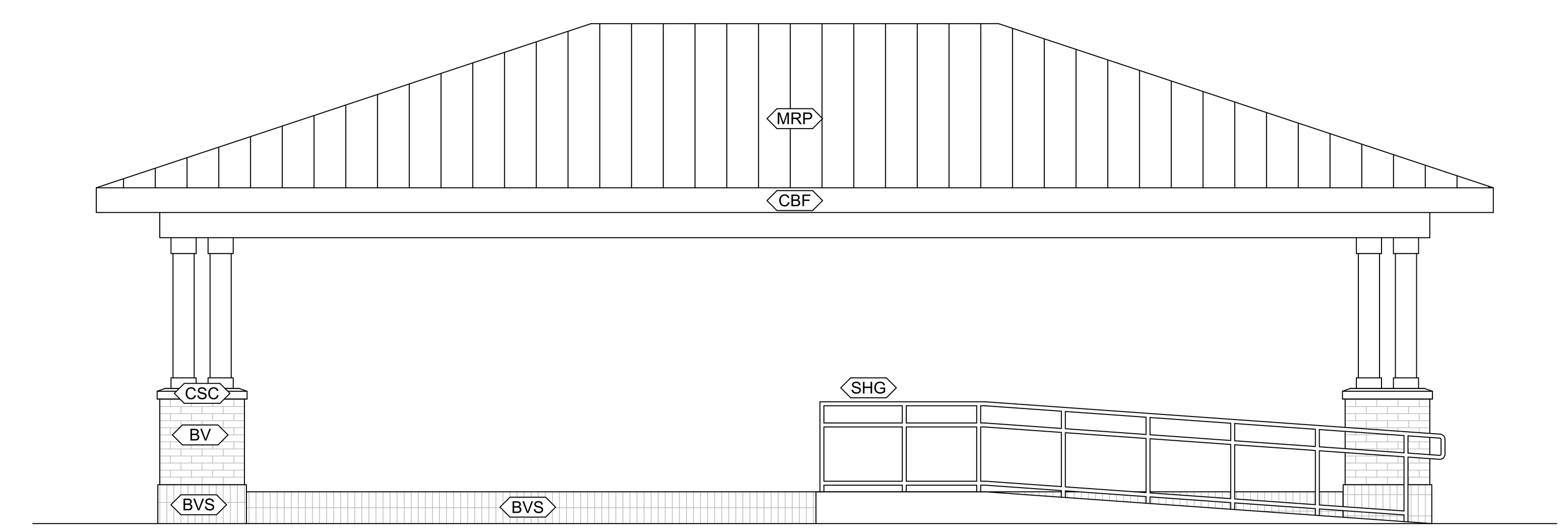
0 2' 4' 6'



D WEST ELEVATION OF PAVILION - ROOF ALTERNATE

SCALE: 1/4" = 1'-0"

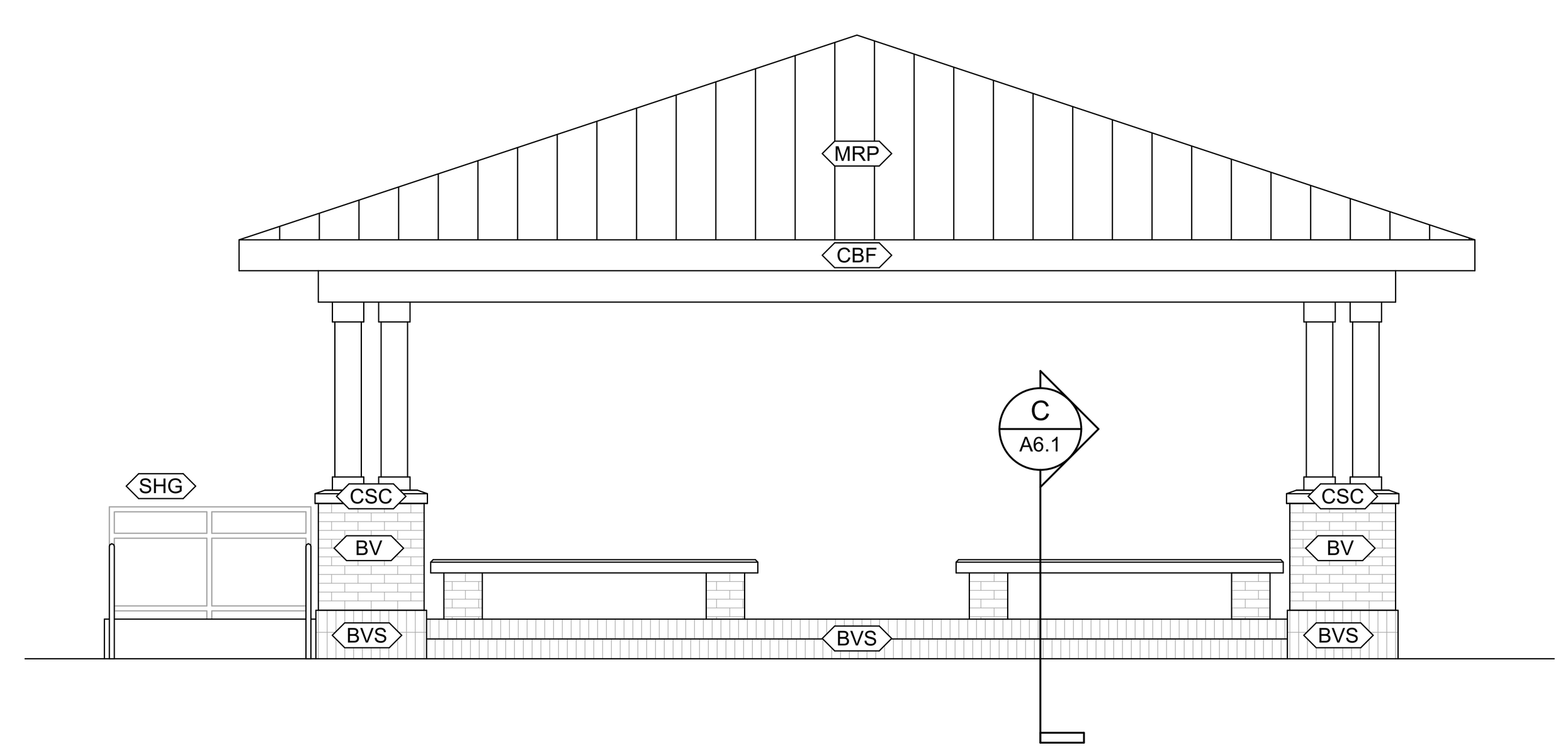
0 2' 4' 8'



C SOUTH ELEVATION OF PAVILION - ROOF ALTERNATE

SCALE: 1/4" = 1'-0"

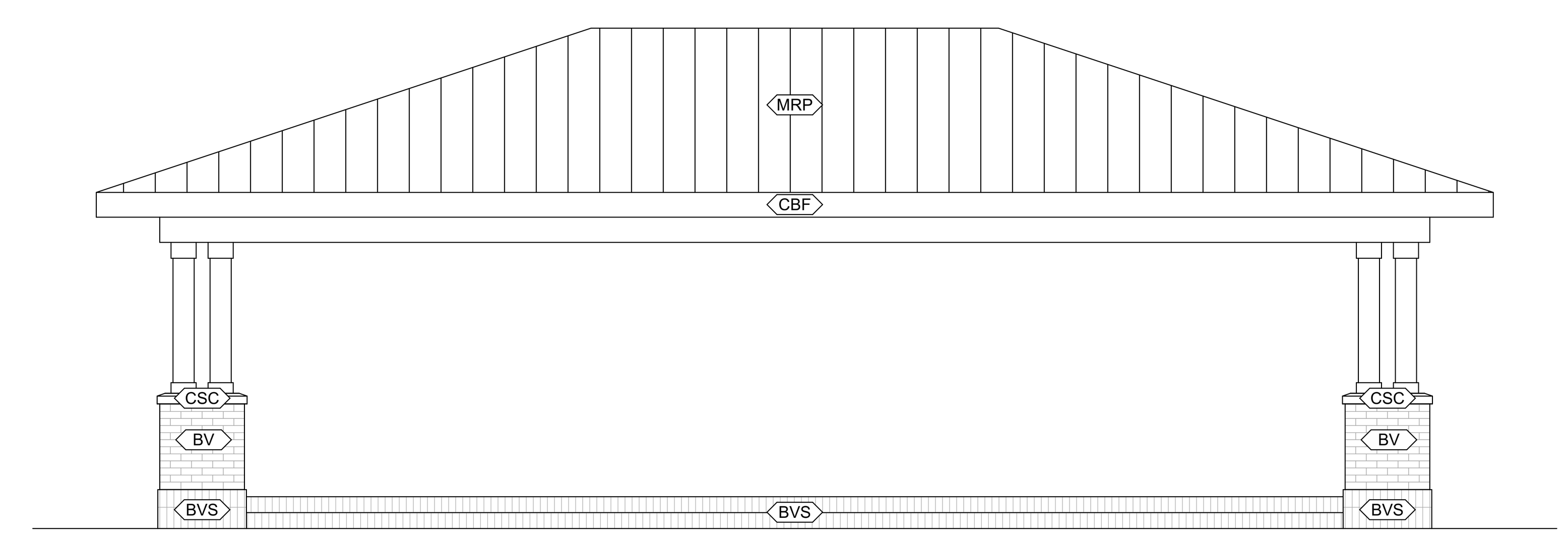
0 2' 4' 8'



B EAST ELEVATION OF PAVILION - ROOF ALTERNATE

SCALE: 1/4" = 1'-0"

0 2' 4' 8'



A NORTH ELEVATION OF PAVILION - ROOF ALTERNATE

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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SHEET TITLE
METAL ROOF SYSTEM AT PAVILION - ALTERNATE

SHEET TITLE
A9.2

LEGEND

- POLISHED CONCRETE
- PORCELAIN TILE
- STAMPED CONCRETE (ALTERNATE)
- QUARRY TILE
- SEALED CONCRETE
- BROOM FINISHED CONCRETE

ROOM FINISH SCHEDULE

--- - NO WORK REQUIRED
GBP - GYPSUM BOARD - PAINT
GB - GYPSUM BOARD - NO PAINT
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
MGB - MOISTURE RESISTANT GYPSUM BOARD - NO PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
IGB - IMPACT RESISTANT GYPSUM BOARD - NO PAINT

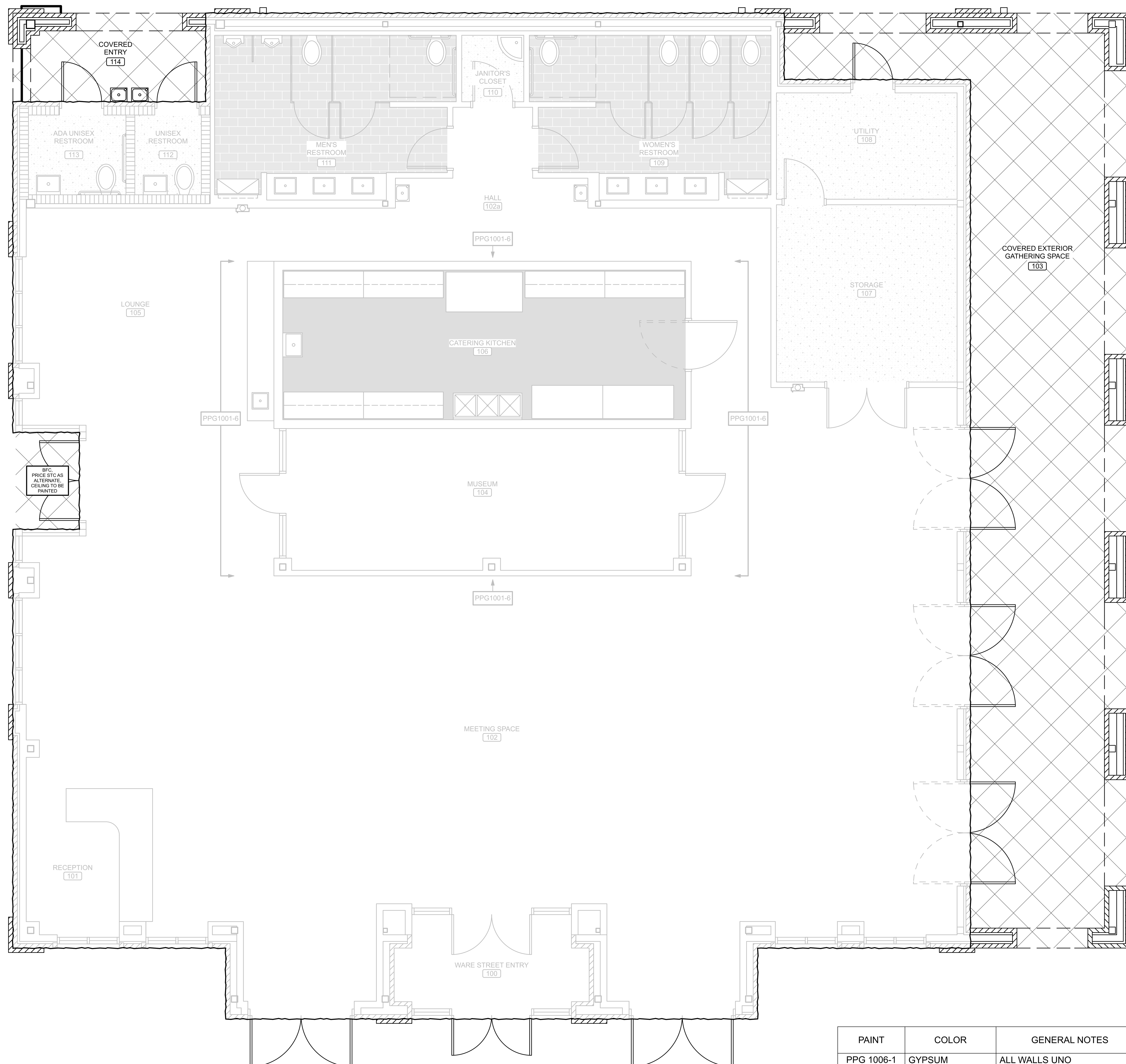
CMUP - CONCRETE MASONRY UNIT - PAINT
CMU - CONCRETE MASONRY UNIT - NO PAINT
IMWP - INTERIOR METAL WALL PANELS
PLP - PLASTIC LAMINATE WALL PANELS
AWC - ACCOUSTICAL WALL COVERING
CT - CERAMIC TILE
PT - PORCELAIN TILE

TR - TERRAZZO
SC - SEALED CONCRETE
PC - POLISHED CONCRETE
RSF - ROLL RUBBER SPORTS FLOORING
VCT - VINYL COMPOSITION TILE
WGF - WOOD GYMNASIUM FLOORING
C - CARPET

PF - POLYMER FLOORING
RB - RUBBER BASE
WB - WOOD BASE
VCB - VENTILATED COVE BASE
STC - STAMPED CONCRETE
QT - QUARRY TILE
QTB - QUARRY TILE INTEGRATED BASE

PTB - PORCELAIN TILE INTEGRATED BASE
BFC - BROOM FINISHED CONCRETE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
100	WARE STREET ENTRY	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	COORDINATE GBP with BRICK and STOREFRONT - SEE PLAN
101	RECEPTION	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
102	MEETING SPACE	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
102A	HALL	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
103	GATHERING SPACE (EXTERIOR)	BFC	---	BRICK	BRICK	BRICK	BRICK	SEE RCP PLAN		---	---	PRICE STAMPED CONCRETE AS ALTERNATE, SEE A9.3 HARDI BOARD CEILING TO BE PAINTED
104	MUSEUM	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 9' 6"' AFF
105	LOUNGE	PC	WB	GBP	GBP	GBP	GBP	SEE RCP PLAN		---	---	WOOD PICTURE MOULD at 12' AFF
106	CATERING KITCHEN	QT	QTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		---	---	
107	STORAGE	SC	RB	GB	GB	GB	GB	SEE RCP PLAN		---	---	
108	UTILITY	SC	RB	GB	GB	GB	GB	SEE RCP PLAN		---	---	
109	WOMEN'S RESTROOM	PT	PTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		PT	5'-0"	DAL TILE, COLORBODY PORCELAIN: PLAZA NOVA, IN GRAY FOG PN98, 12" x 24", RUNNING BOND PATTERN WITH BLACK GROUT
110	JANITOR'S CLOSET	SC	RB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		---	---	
111	MEN'S RESTROOM	PT	PTB	MGBP	MGBP	MGBP	MGBP	SEE RCP PLAN		PT	5'-0"	DAL TILE, COLORBODY PORCELAIN: PLAZA NOVA, IN GRAY FOG PN98, 12" x 24", RUNNING BOND PATTERN WITH BLACK GROUT
112	UNISEX RESTROOM	SC	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	
113	ADA UNISEX RESTROOM	SC	RB	CMUP	CMUP	CMUP	CMUP	SEE RCP PLAN		---	---	
114	COVERED ENTRY	BFC	---	BRICK	BRICK	BRICK	BRICK	SEE RCP PLAN		---	---	PRICE STAMPED CONCRETE AS ALTERNATE, SEE A9.3 HARDI BOARD CEILING TO BE PAINTED



PAINT	COLOR	GENERAL NOTES
PPG 1006-1	GYPSUM	ALL WALLS UNO
PPG 1001-6	KNIGHT'S ARMOR	NOTED ON FINISH PLAN
BM 2051-60	BIRD'S EGG	HARDIE BOARD CEILINGS

1 FINISH PLAN - STAMPED CONCRETE ALTERNATE
SCALE: 1/4" = 1'-0"

0 2' 4' 8'

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11/11/16

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

610 SOUTH MAIN STREET
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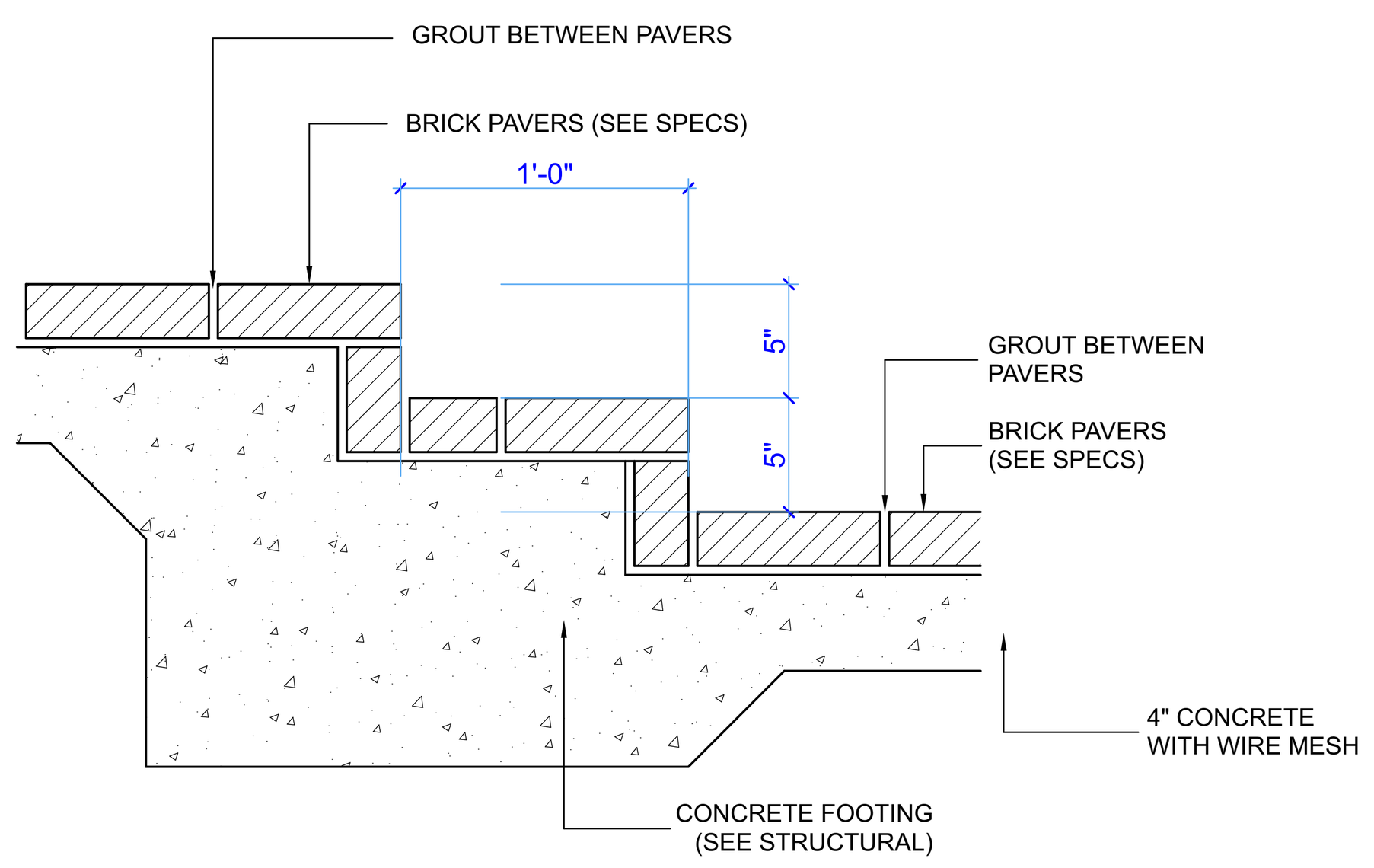
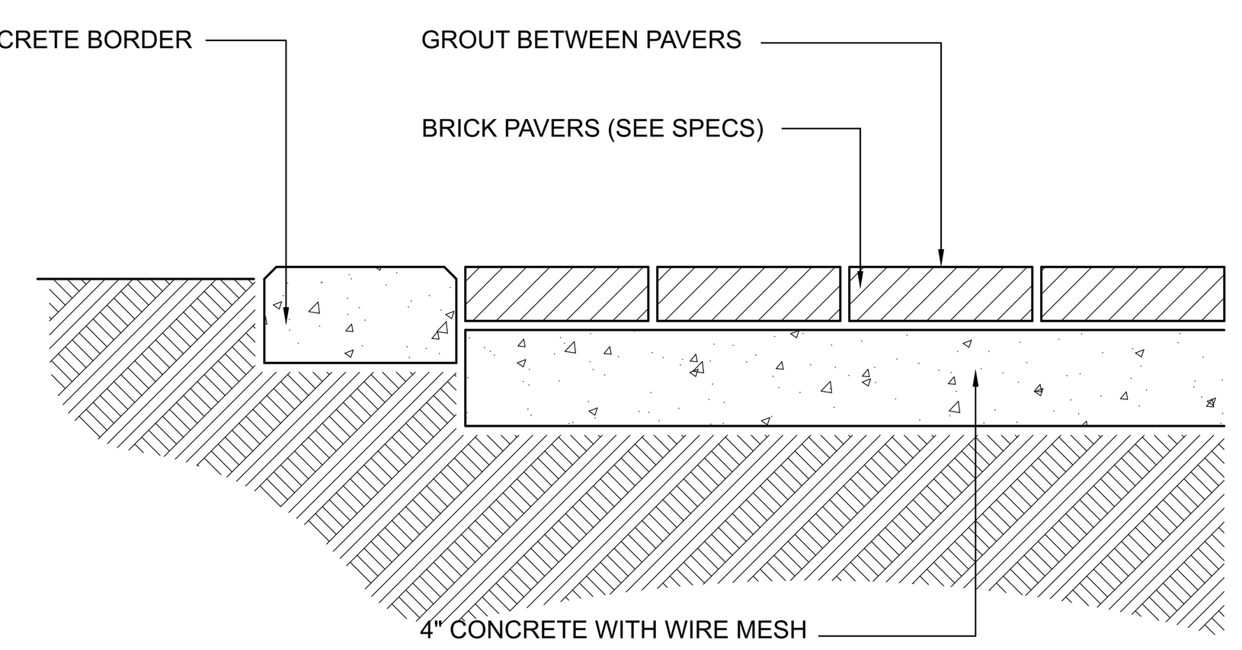
SHEET TITLE
STAMPED CONCRETE AT EVENT CENTER - ALTERNATE

SHEET TITLE
A9.3



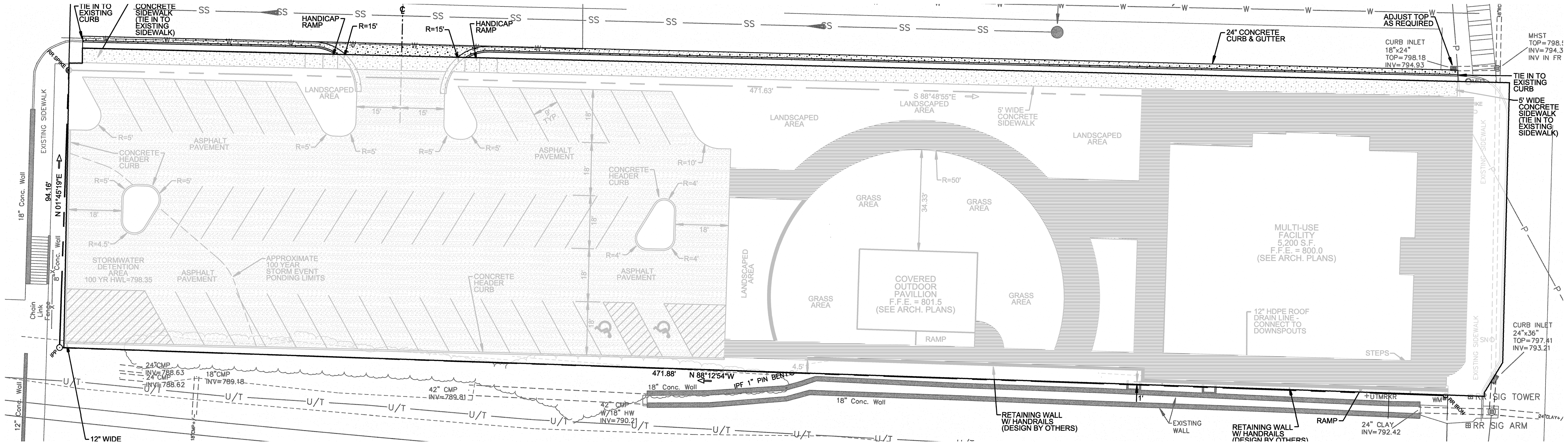
3A TYPICAL BRICK PAVER STAIR SECTION - ALT

SCALE: 1 1/2"= 1'-0"



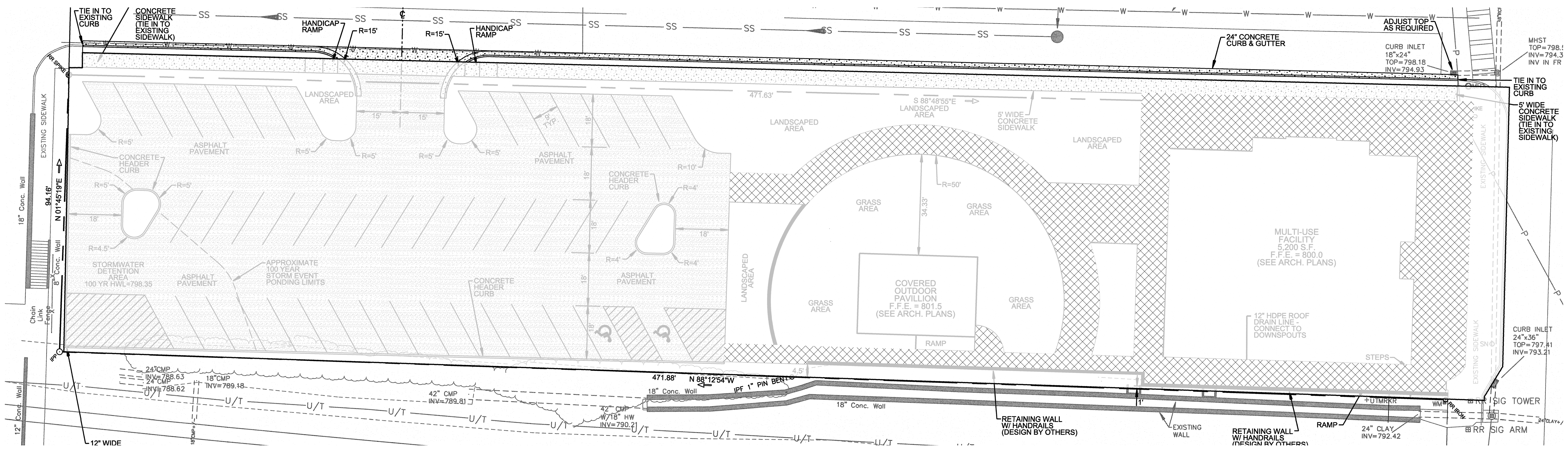
3B TYPICAL BRICK PAVER DETAIL - ALT

SCALE: 1 1/2"= 1'-0"



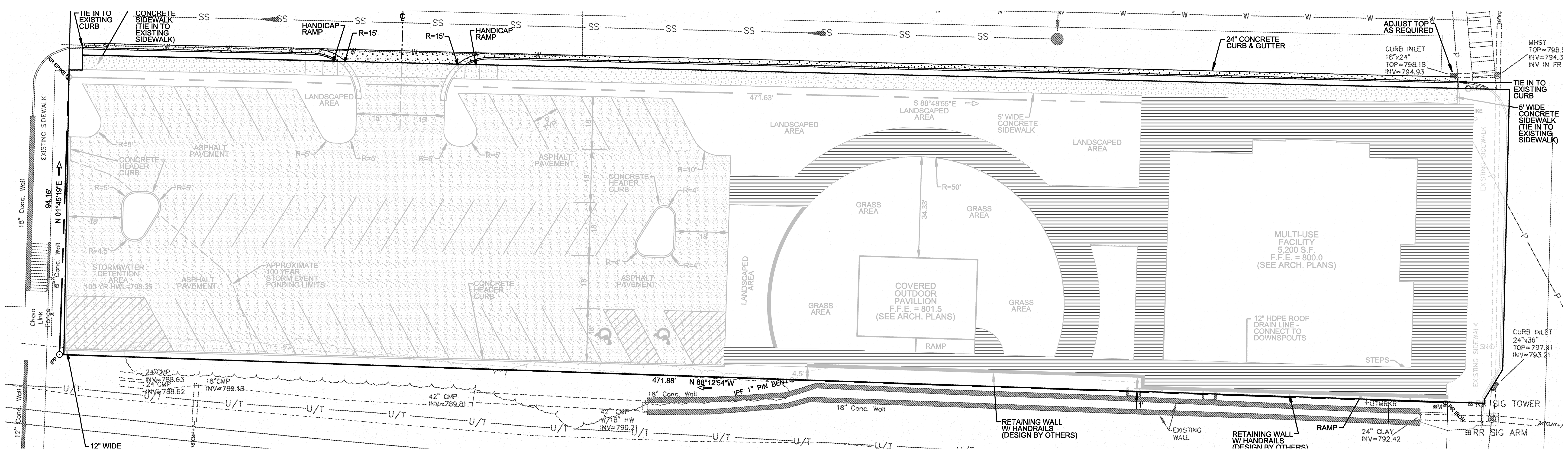
3 BRICK PAVERS - ALTERNATE

SCALE: 1" = 20'



2 STAMPED CONCRETE - ALTERNATE

SCALE: 1" = 20'



1 BROOM FINISHED CONCRETE - BASIS OF DESIGN

SCALE: 1" = 20'

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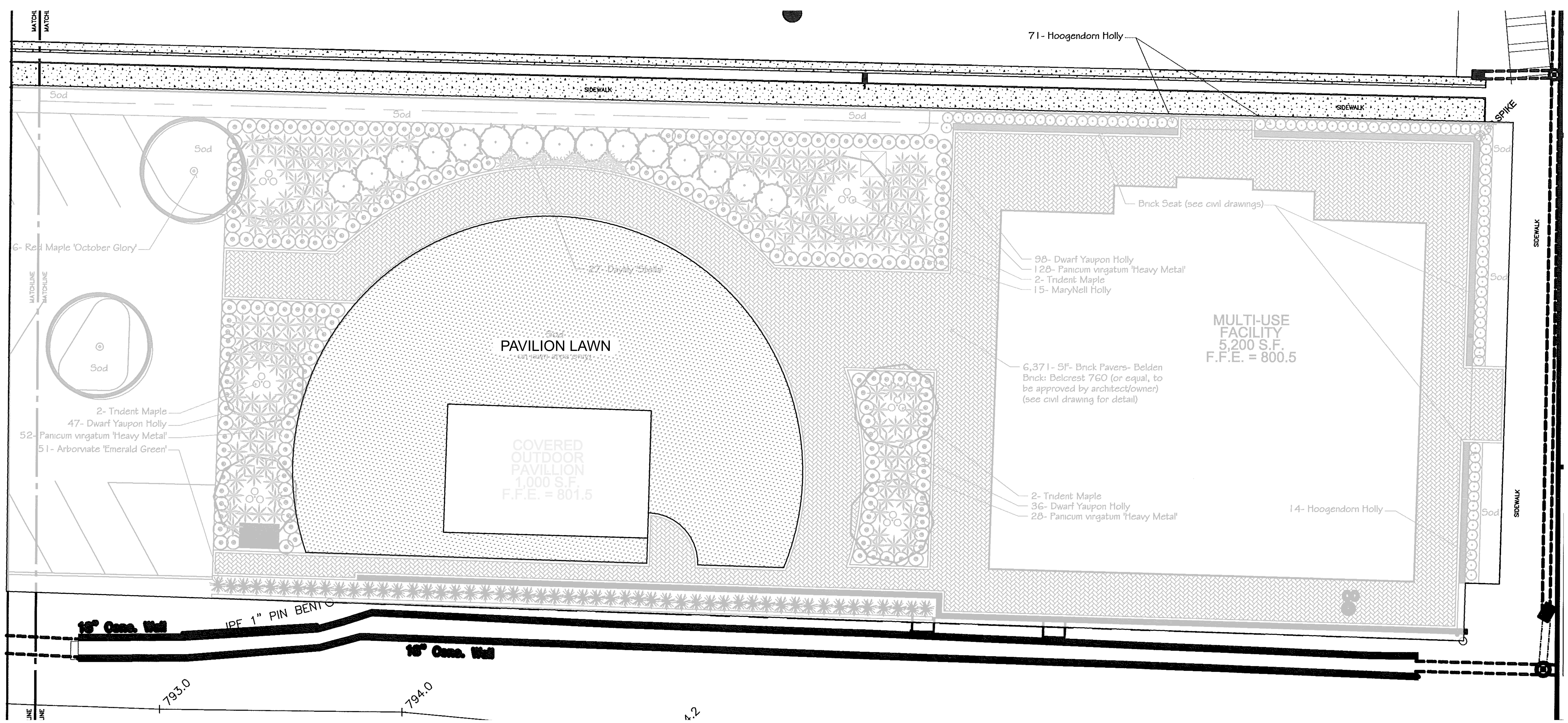
SHEET TITLE
HARDSCAPE THROUGHOUT SITE - ALTERNATES

SHEET TITLE
A9.4



1 IRRIGATION AT PAVILION LAWN - ALTERNATE
SCALE: 1" = 10'

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SHEET TITLE
IRRIGATION AT PAVILION LAWN

SHEET TITLE
A9.5

GENERAL HVAC NOTES

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE LOCAL CODE OFFICE'S LATEST APPROVED VERSION OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BLDG. CODE, THE STATE ENERGY CODE, NFPA 54, NFPA 90A, 101, UNDERWRITERS LABORATORIES AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES, EQUIPMENT LOCATIONS, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
3. SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND MECHANICAL ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. THESE SHALL INCLUDE ALL EQUIPMENT SPECIFIED ON THE PLANS OR IN THE PROJECT SPECIFICATIONS.
4. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND ELECTRICAL PLANS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR DESCRIPTION OF INTERFACE WITH DIVISION 16 WORK.
5. ALL REQUIRED CONTROL WIRING NOT SHOWN ON ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
6. UNLESS OTHERWISE NOTED, STARTERS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
7. INSTALL FIRE DAMPERS IN ALL RATED WALL, FLOOR, AND CEILING PENETRATIONS AS APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED AREAS. PROVIDE ACCESS DOORS IN DUCT AT EACH FIRE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH SMOKE AND FIRE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION SMOKE AND FIRE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 LABELED.
8. FIRE ALARM CONTRACTOR SHALL PROVIDE SMOKE DETECTORS FOR THE SUPPLY AIR TRUNKS OF ALL HVAC EQUIPMENT SUPPLYING GREATER THAN 2000 CFM TO ANY SPACE. PER IMC 606, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON ACTIVATION. PER IMC 606, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL AS APPLICABLE. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO BE IDENTIFIED AS "AIR DUCT DETECTOR TROUBLE". HVAC UNITS MAY BE RESET AT FIRE ALARM PANEL.
9. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL WIRING AND EQUIPMENT TO MONITOR SMOKE DETECTORS AND SHUT DOWN HVAC UNIT UPON SMOKE DETECTOR ACTIVATION. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS, AND MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING DETECTOR IN DUCT. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND OPERATION OF BUILDING FIRE ALARM SYSTEM.
10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
11. SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN SUPPLY AND RETURN SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER TO SMACNA CLASS A, NO CLOTH DUCT TAPE IS ALLOWED.
12. ALL SHEET METAL SUPPLY, RETURN, AND VENTILATION AIR DUCT WORK SHALL BE INSULATED WITH 2" THICK FIBERGLASS, 1 LB PER CUFT. DUCT INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, MINIMUM R-6 OR OTHERWISE AS REQUIRED BY LOCAL ENERGY CODES. EXHAUST DUCT WORK SHALL BE INSULATED WITH THE SAME WITHIN 10' OF EXTERIOR WALL OR ROOF OPENING.
13. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS. ELECTRICAL DISCONNECTS FOR EQUIPMENT SHALL BE LABELED TO MATCH EQUIPMENT SERVED.
14. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT HANG FROM OR REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND CONNECTION TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.
15. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R-6 MINIMUM VALUE OR AS REQUIRED BY LOCAL ENERGY CODE) IN ATTICS AND OTHER UNCONDITIONED SPACES. AIR CONNECTORS ARE NOT ACCEPTABLE. SIZE TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL DUCT RUN-OUTS TO PROVIDE A MAXIMUM FLEXIBLE DUCT LENGTH OF 5'-0". FLEXIBLE DUCTWORK SHALL BE ROUTED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS AS REQUIRED TO CONNECT TO AIR DEVICE NECK.
16. BRANCH RUN-OUT DUCTS SHALL BE SAME SIZE AS DIFFUSER NECK IF NOT NOTED OTHERWISE.
17. SHEET METAL DUCTWORK SHOWN AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK, 3 LB/CUFT. DENSITY DUCT LINER, MINIMUM R-4 OR AS REQUIRED BY APPLICABLE ENERGY CODE, CERTAINTEED "TOUGHGARD" OR EQUAL BY JOHNS-MANVILLE OR KNAUF. LINE ALL DUCTWORK A MINIMUM OF 15'-0" DOWNSTREAM AND UPSTREAM (WHERE POSSIBLE) OF ALL AIR HANDLING UNITS, FAN COIL UNITS, AND TERMINAL UNITS. LEADING EDGE OF INSULATION SHALL HAVE SHEET METAL NOSING. DUCT THAT IS INTERNALLY INSULATED SHALL BE EXTERNALLY INSULATED AS WELL.
18. DUCTWORK DIMENSIONS SHOWN ON DRAWING ARE INSIDE CLEAR DIMENSIONS. CONRACTOR SHALL ADJUST TOTAL DUCT WORK DIMENSIONS TO ACHIEVE SHOWN INSIDE CLEAR DIMENSIONS.
19. DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS MANAGERS BEFORE EQUIPMENT CAN BE MOVED INTO LOCATION OR INSTALLED.
20. ALL CONDENSATE DRAIN LINES FROM HVAC EQUIPMENT LOCATED INSIDE THE BUILDING SHALL BE TRAPPED AND SHALL DRAIN INTO BUILDING FLOOR DRAINS, ROOF DRAINS, OR STORM DRAINS. CONDENSATE SHALL BE INSULATED SCHEDULE 40 PVC (EXCEPT INSULATED TYPE L COPPER IN HVAC PLENUMS). CONDENSTATE SHALL BE PUMPED AS REQUIRED.
21. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPE HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORD OF JOISTS.
22. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRESTOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE MANUFACTURED BY 3M COMPANY, CP25 CAULK, CP195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYTEMS AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
23. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THIS WORK SHALL BE REPAIRED TO EXISTING OR LIKE-NEW CONDITION.
24. OUTSIDE HARDWARE FOR EXHAUST FANS SHALL BE PLACED IN A LOCATION SUITABLE TO OWNER. CONTRACTOR SHALL COORDINATE PLACEMENT WITH OWNER BEFORE FINAL INSTALLATION. OUTSIDE HARDWARE FOR EXHAUST FANS AND FRESH AIR INTAKES SHOULD BE CONSTRUCTED SO AS TO BE WEATHERTIGHT AND SHOULD INCLUDE INTEGRAL INSECT SCREENS.
25. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

HVAC LEGEND

SYMBOL - SINGLE LINE	SYMBOL - DOUBLE LINE	DESCRIPTION
BDD	BDD	BACKDRAFT DAMPER
		CELING DIFFUSER
		CEILING RETURN GRILLE
AB 200	AB 200	DIFFUSER TAG: TYPE "A", NECK SIZE 8", BALANCED FOR 200 CFM
EG-1 75	EG-1 75	GRILLE TAG: TYPE "EG-1", BALANCED FOR 75 CFM
D	D	DROP
16x12	16x12	DUCT SIZE - RECTANGULAR
10"ø	10"ø	DUCT SIZE - ROUND
		DUCT SMOKE DETECTOR
		DUCT TRANSITION
AHU 1	AHU 1	EQUIPMENT DESIGNATION
		FIRE DAMPER, HORIZONTAL
		FIRE DAMPER, VERTICAL
		FLEXIBLE DUCT
H	H	HUMIDISTAT
		LINED DUCT
	MVD	MANUAL VOLUME DAMPER
MOD	MOD	MOTOR OPERATED DAMPER
		RETURN AIR DUCT TURNED DOWN
		RETURN AIR DUCT TURNED UP
R	R	RISE
1	1	REVISION TAG (#1)
		SIDEWALL SUPPLY REGISTER OR GRILLE
		SIDEWALL RETURN REGISTER OR GRILLE
S	S	SMOKE DAMPER
		SUPPLY AIR DUCT TURNED DOWN
		SUPPLY AIR DUCT TURNED UP
T	T	THERMOSTAT, WALL-MOUNTED
		RECT. ELBOW WITH TURNING VANES
UC	UC	UNDER CUT (DOOR) 1"
		WALL LOUVER INTAKE
		WALL LOUVER EXHAUST
FC	FC	FLEXIBLE EQUIPMENT CONNECTOR
C	C	CARBON DIOXIDE SENSOR

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
MBH	1000 BTU/HR
A/C	ABOVE CEILING
A/F	ABOVE FLOOR
AHU	AIR HANDLING UNIT
CD	CONDENSATE DRAIN
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE (IN. W.C.)
HP	HEAT PUMP UNIT
OA	OUTSIDE AIR
WL	WALL LOUVER
FC	FLEXIBLE EQUIPMENT CONNECTOR
MSHP	MINI-SPLIT HEAT PUMP UNIT
MSFC	MINI-SPLIT FAN COIL UNIT

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

TAG	BASIS OF DESIGN	SUPPLY AIR CFM	MAX/MIN. O.A. CFM	E.S.P. (IN. WG.)	SUPPLY FAN HP	COOLING COIL, MBH		MIN. (S)EER, HSPF	HEATING COIL, MBH		AUX. ELEC. HEAT, KW	ODU/IDU BASE UNIT WT. (LBS)	POWER	NOTES
						SEN./TOT.	EAT		47 F	EAT				
HP/AHU-1	CARRIER 25HCE448/FX4DNF049	1,600	300/0	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4,5,6
HP/AHU-2	CARRIER 25HCE448/FX4DNF049	1,600	300/0	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4,5,6
HP/AHU-3	CARRIER 25HCE448/FX4DNF049	1,600	300/0	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4,5,6
HP/AHU-4	CARRIER 25HCE448/FX4DNF049	1,600	300/0	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4,5,6
HP/AHU-5	CARRIER 25HCE448/FX4DNF049	1,425	300	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4,5
HP/AHU-6	CARRIER 25HCE448/FX4DNF049	1,450	156	0.5	3/4	34/46	80/67	14/7.7	44.7	70	15	228/157	SEE DIV. 16	1,2,3,4

NOTES:

1. BASIS OF DESIGN IS CARRIER. EQUIVALENT ALTERNATES BY TRANE, AMERICAN STANDARD ARE ALLOWED.
2. EXTERNAL STATIC PRESSURE CALCULATION ACCOUNTS FOR DUCT SYSTEM AND GRILLES ONLY. IT DOES NOT ACCOUNT FOR FILTERS, COILS, HEAT EXCHANGERS, OR ELECTRIC HEATERS, OR OTHER EQUIPMENT INSIDE THE UNIT.
3. LOW AMBIENT COOLING CONTROL CAPABILITY.
4. 7-DAY PROGRAMMABLE WALL MOUNT THERMOSTAT WITH LCD DISPLAY.
5. Bi-POLAR IONIZATION DEVICE IN RETURN SIDE OF UNIT.
6. RETURN DUCT MOUNTED CO2 SENSOR WITH DAMPER IN OA DUCT FOR DEMAND CONTROLLED VENTILATION. INSTALL CO2 SENSOR UPSTREAM OF OA DUCT CONNECTION.

EXHAUST FAN SCHEDULE

TAG	BASIS OF DESIGN	CFM	E.S.P.	WEIGHT (LBS)	SONES	OPER. HP	MOTOR HP	PWR	CONTROL	NOTES
EF-1,2	GREENHECK SP-A410	280	0.25	35	2.0	0.16	1/6	SEE DIV. 16	LIGHT SWITCH	1-4
EF-3,4,5	GREENHECK SP-B110	70	0.25	10	1.5	0.06	1/12	SEE DIV. 16	LIGHT SWITCH	1-4

NOTES

1. OUTSIDE HARDWARE FOR EXHAUST FANS SHOULD BE CONSTRUCTED SO AS TO BE WEATHERTIGHT.
2. SPEED CONTROLLER
3. BACKDRAFT DAMPER
4. VIBRATION ISOLATORS

AIR DISTRIBUTION EQUIPMENT SCHEDULE

TAG	DESCRIPTION	NOTES
A	STEEL SQUARE CONE DIFFUSER, FIXED AIR PATTERN, 4-WAY THROW, ROUND NECK, SIZED AS SHOWN, WHITE, LAY-IN FRAME, INSULATED BACK, PRICE SCD.	1,2,3
B	STEEL DOUBLE DEFLECTION SUPPLY GRILLE, ADJUSTABLE PATTERN, 3/4" SPACING BETWEEN BLADES, SIZE AS SHOWN, FRONT BLADES PARALLEL TO SHORT DIMENSION, O.B. DAMPER WHEN DUCT MOUNTED, WHITE (CLG.) OR BLACK (DUCT), PRICE 520.	1,2,3
C	HEAVY WALL EXTRUDED ALUMINUM CUSTOM FLOW CONTINUOUS LINEAR SLOT DIFFUSER, TWO 1 IN. SLOTS, 5 FT. LENGTH, 10" NECK, C/W INSULATED STEEL ENGINEERED PLENUM WITH SIDE DUCT CONNECTION, GRILLE COLOR TO MATCH FLOATING CLOUD FACE WOOD COLOR, PLENUM TO BE PAINTED BLACK, PRICE AS.	1,2,3
D	1/2"X1/2"X1/2" ALUMINUM EGG CRATE RETURN GRILLE, LAY-IN FRAME, 24X12 OR 12X12 SIZE, PLENUM TYPE OR ROUND DUCT CONN. NECK AS SHOWN, PRICE 80.	1

NOTES

1. VERIFY MOUNTING TYPE WITH ARCHITECTURAL RCP.
2. SUPPLY DIFFUSERS AND GRILLES SHALL NOT COME SUPPLIED WITH VOLUME DAMPERS. MANUAL VOLUME DAMPERS SHALL BE INSTALLED AT BRANCH TAKE-OFFS NEAR TRUNK (SEE DETAIL SHEET).
3. BACK INSULATION SHALL BE INCLUDED ON ALL SUPPLY DIFFUSERS AND GRILLES.

ROOFTOP GRAVITY VENTILATOR SCHEDULE

TAG	BASIS OF DESIGN	CFM	CONN. SIZE (IN.)	MAX TPD (IN.)	COLOR	APPLICATION	NOTES
GVR-1	GREENHECK GRSR-15	770	16 X 16	0.1	METALLIC	EXHAUST	1-3
GVI-1	GREENHECK GRSI-8	770	16 X 16	0.1	METALLIC	EXHAUST	1-3

NOTES

1. BACKDRAFT DAMPER
2. INSECT SCREEN
3. CURB MOUNT

ELECTRIC HEATER SCHEDULE

TAG	BASIS OF DESIGN	HEATING OUTPUT (WATTS)	FAN CFM	TYPE	BASE UNIT WT. (LBS)	POWER	APPLICATION	ROUGH-IN DIMENSIONS (W X H X D)	NOTES
EHU-1,2	MARKEL 4400	562	70	WALL	9	SEE DIV. 16	RESTROOM HEATING	14-1/2" X 7-1/8" X 3-1/2"	1,2,3
EHU-3	MARKEL 3320	1,125	175	WALL	26	SEE DIV. 16	UTILITY ROOM HEATING	14-3/16" X 19-7/16" X 4"	1,2,3

NOTES:

1. BUILT-IN THERMOSTAT FOR CONTROL.
2. RECESSED WALL MOUNT.
3. WATTAGE SELECTED AT 208 V.

COM*check* Software Version 4.0.2.1

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: Lankford Event Center
Location: Cedartown, Georgia
Climate Zone: 3a
Project Type: New Construction

Construction Site: 201 East Ave. Cedartown, GA 30125
Owner/Agent:
Designer/Contractor: Jeff Drinkard, Drinkard Engineering Group Inc., 119 South Broad St., Rome, GA 30161, 706-237-6013

Mechanical Systems List

Quantity	System Type & Description
2	HP/AHU 1-6 (Single Zone): Split System Heat Pump; Heating Mode: Capacity = 45 kBtu/h, Proposed Efficiency = 7.70 HSPF, Required Efficiency = 7.70 HSPF; Cooling Mode: Capacity = 46 kBtu/h, Proposed Efficiency = 14.00 SEER, Required Efficiency = 13.00 SEER; Fan System: AHU 1-6 -- Compliance (Motor nameplate HP method) : Passes; Fans: SA Fan Supply, Constant Volume, 1600 CFM, 0.8 motor nameplate hp
1	EWH: Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump; Proposed Efficiency: 0.91 EF, Required Efficiency: 0.86 EF

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2007) Standard requirements in COM*check* Version 4.0.2.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

JEFF DRINKARD
Name - Title

[signature]
Signature

3/28/16
Date

Project Title: Lankford Event Center | Report date: 03/28/16
Data filename: C:\Users\Jeff\Dropbox (DEG Team)\DEG Team Docs\Cevian Design\Lankford Event Center\Mech Comcheck.cck | Page 1 of 10

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GEORGIA REGISTERED PROFESSIONAL ENGINEER PE030394 JEFFREY A. DRINKARD
11/14/2016

CITY OF CEDARTOWN, GEORGIA
LANKFORD EVENT CENTER
201 EAST AVENUE
CEDARTOWN, GEORGIA 30125

REVISION #	DATE / COMMENTS

SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : HVAC NOTES, LEGENDS, AND SCHEDULES

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

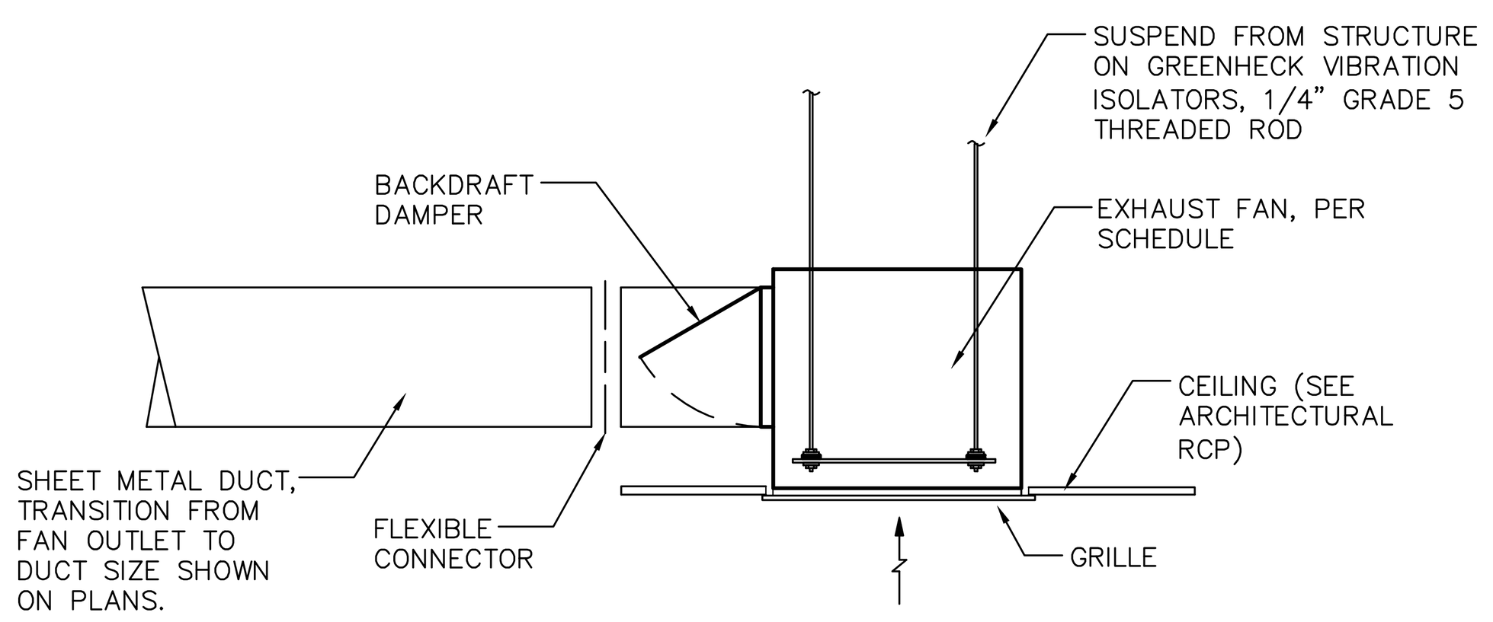
DATE: 11.14.16

REVISED DATE:

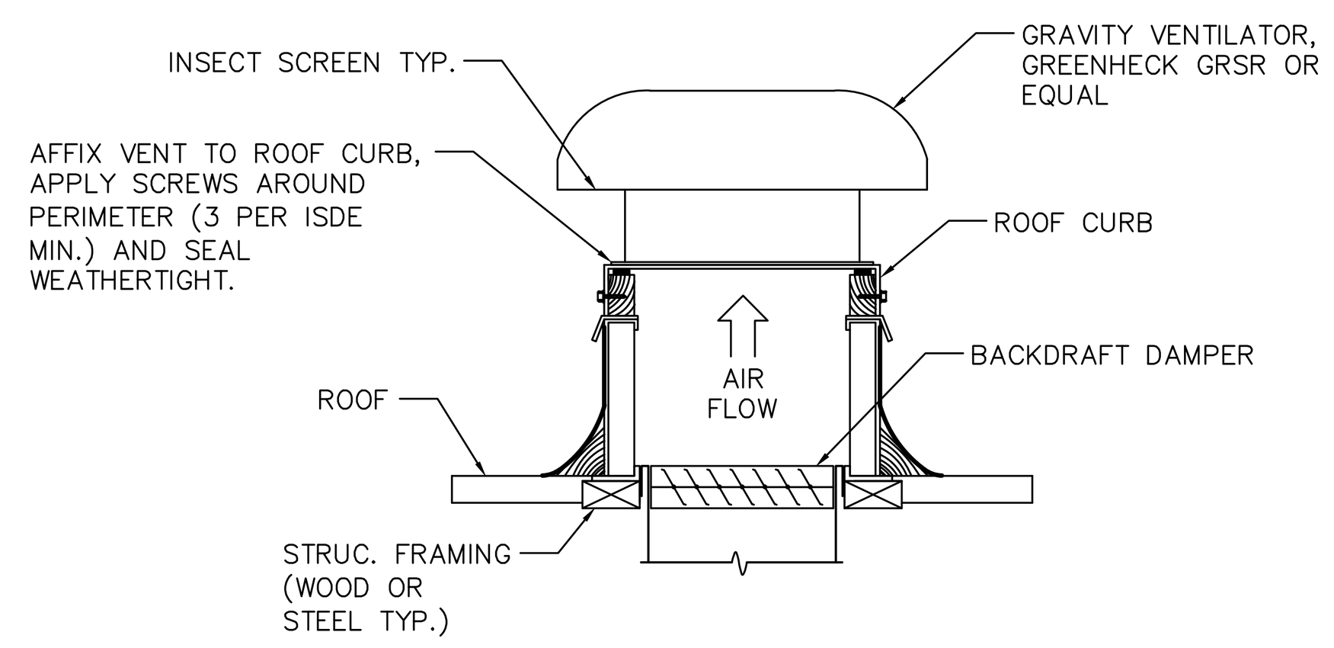
REVISED DATE:

REVISED DATE:

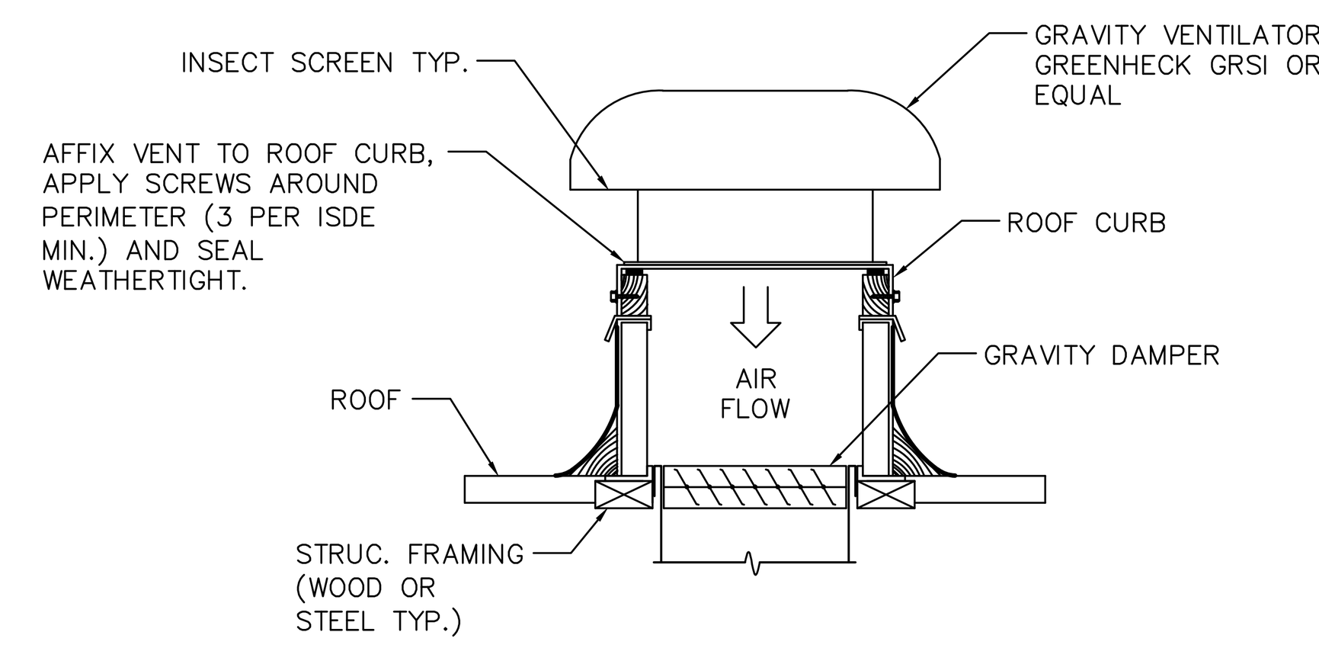
SHEET NO. : M0.1



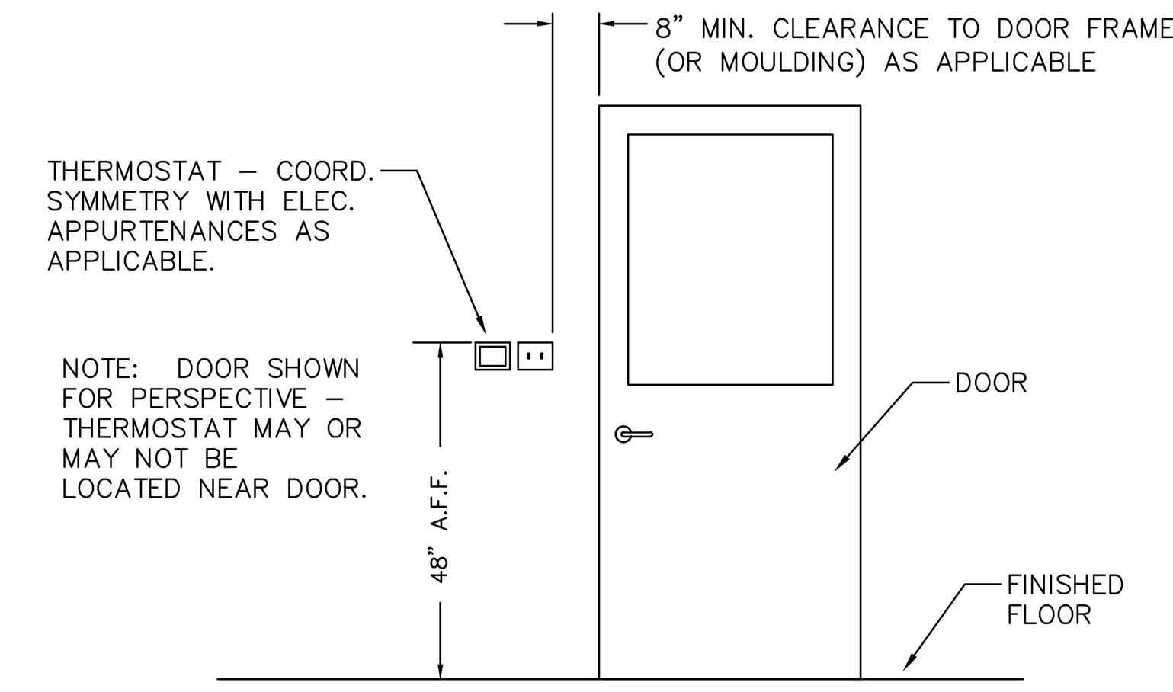
DE-7A CEILING MOUNT EXHAUST FAN DETAIL



DE-9A GRAVITY TYPE ROOF VENTILATOR DETAIL – EXHAUST



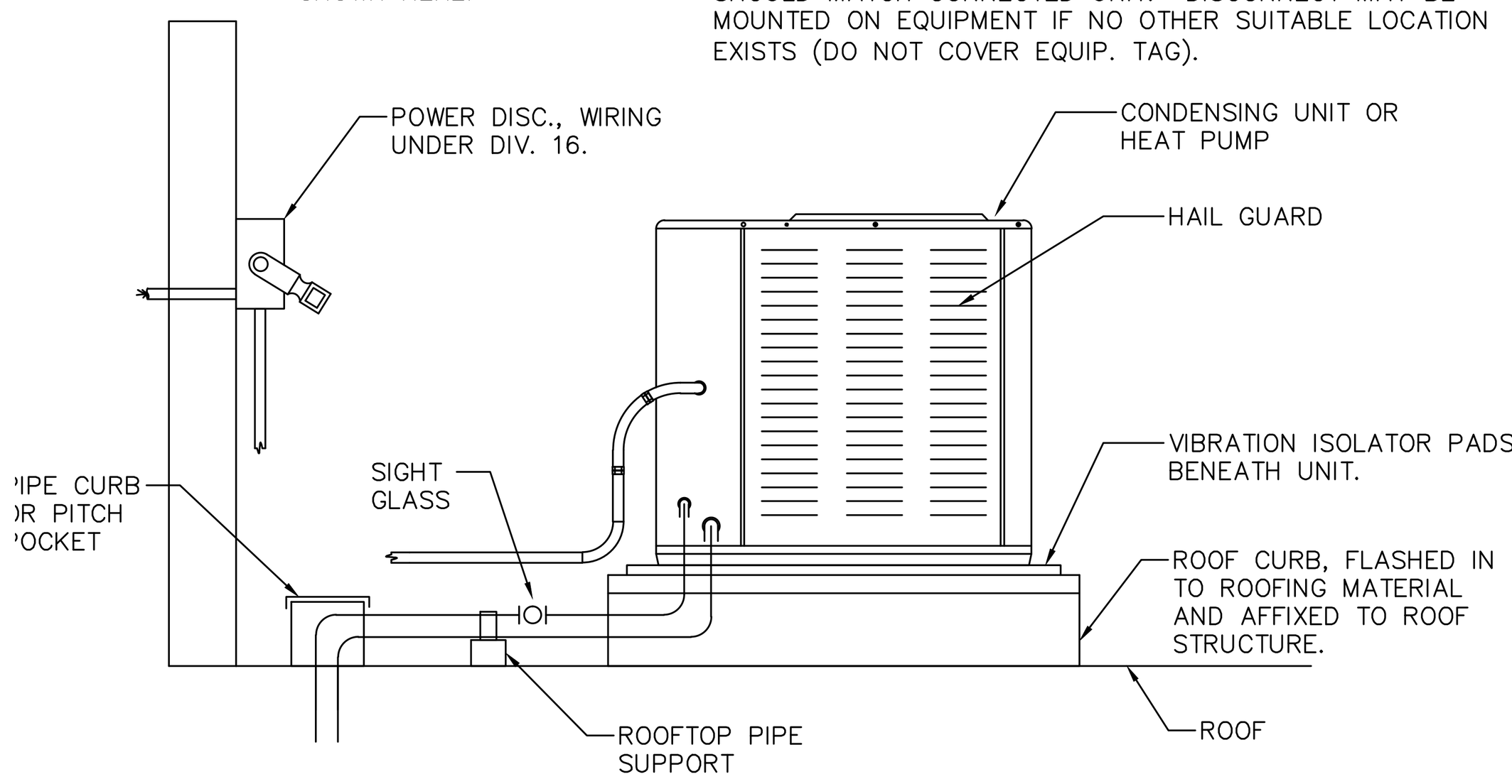
DE-9B GRAVITY TYPE ROOF VENTILATOR DETAIL – INTAKE



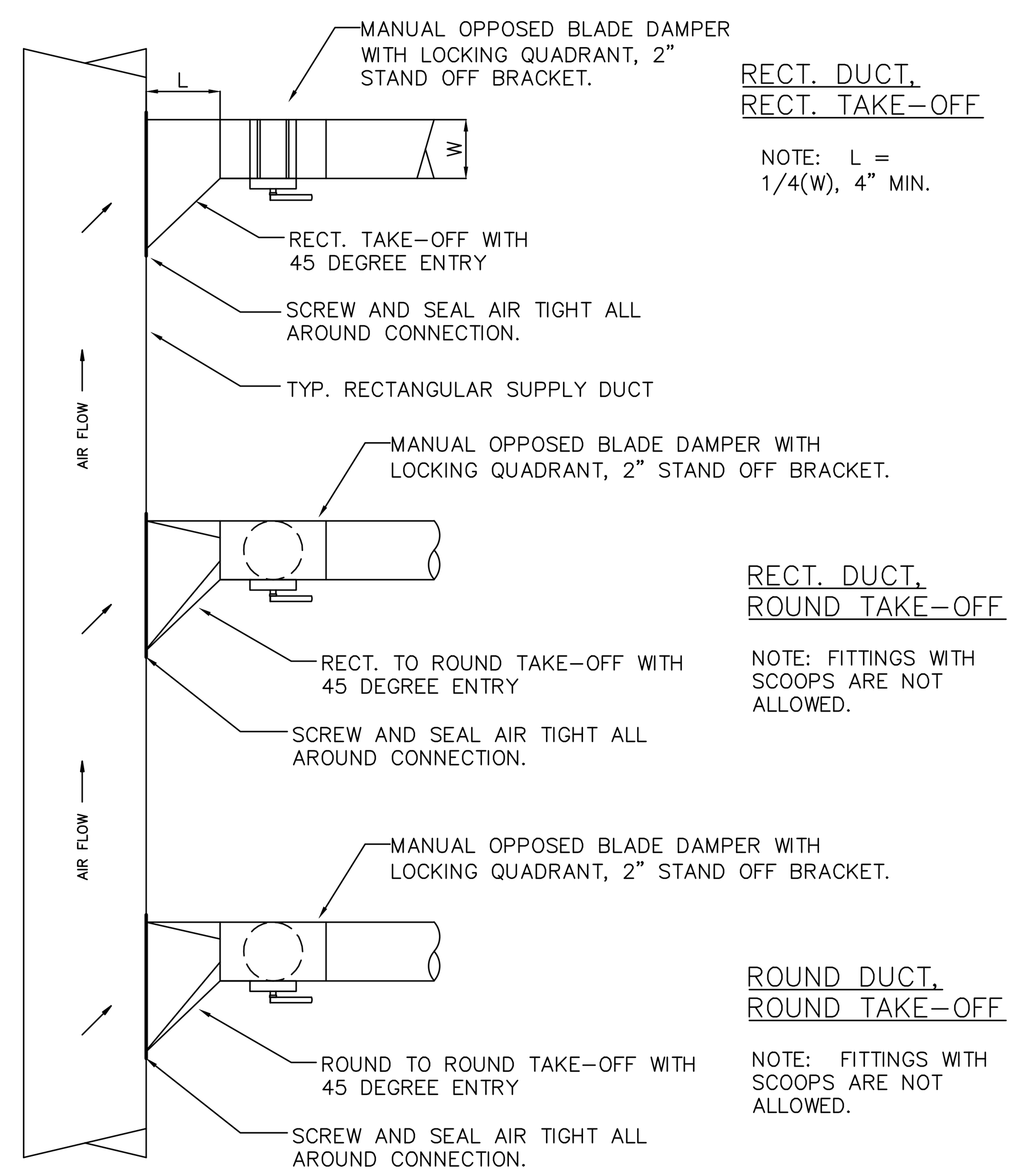
DE-15 TYP. THERMOSTAT OR WALL SENSOR INSTALLATION DETAIL

NOTE: FOR CLARITY, CONTROLS WIRING NOT SHOWN HERE.

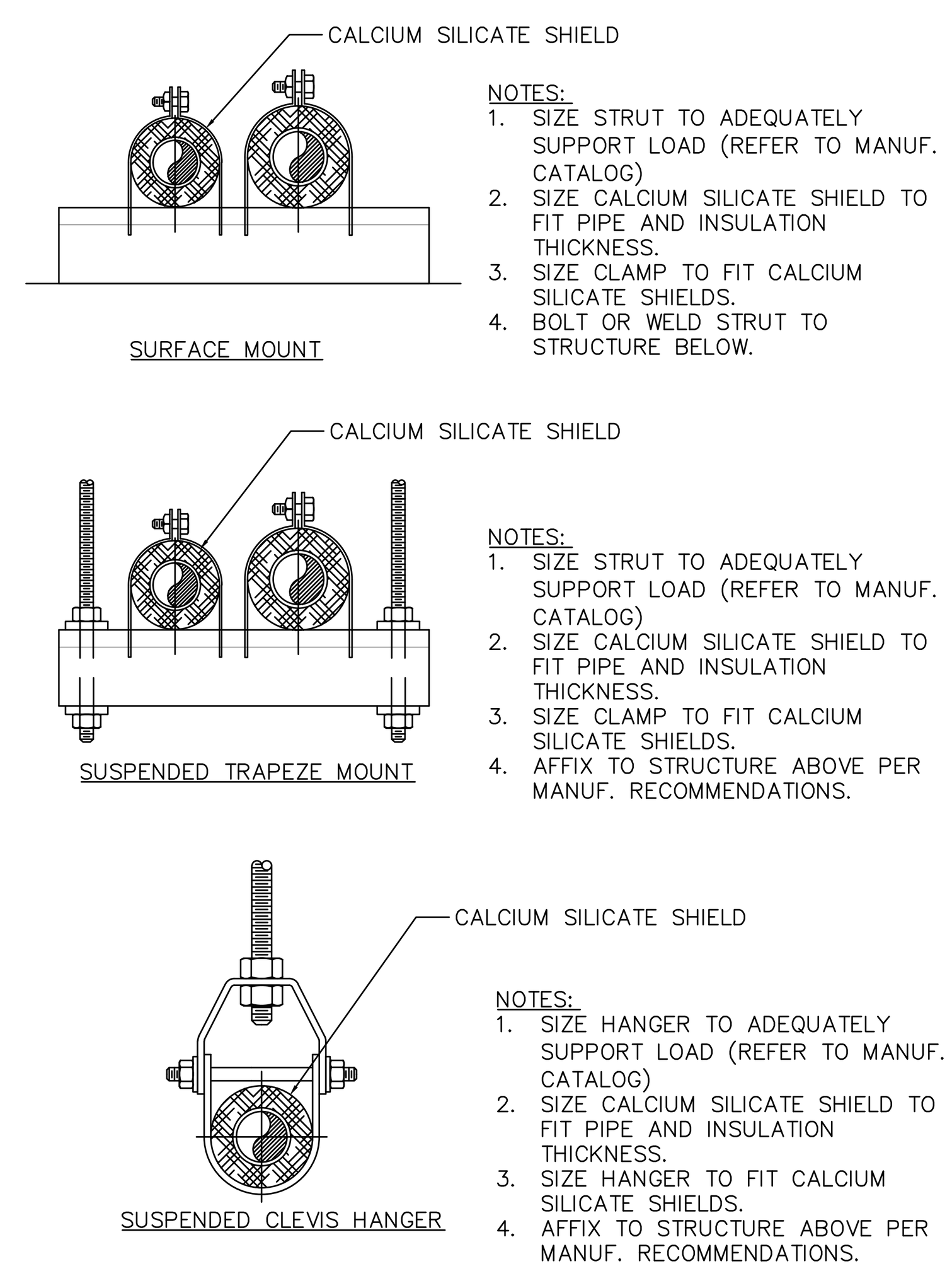
NOTE: OUTDOOR UNIT AND POWER DISCONNECT TO BE LABELED AS TAGGED ON SCHEDULE. DISCONNECT LABEL SHOULD MATCH CONNECTED UNIT. DISCONNECT MAY BE MOUNTED ON EQUIPMENT IF NO OTHER SUITABLE LOCATION EXISTS (DO NOT COVER EQUIP. TAG).



DE-13A TYP. ROOFTOP MOUNT SPLIT DX CONDENSER DETAIL



DD-2A BRANCH DUCT TAKE-OFF DETAILS



ROOFTOP PIPES SHALL BE SUPPORTED BY ROOF TOP CLEVIS TYPE PIPE SUPPORT, MIRO 6-H OR EQUIVALENT.

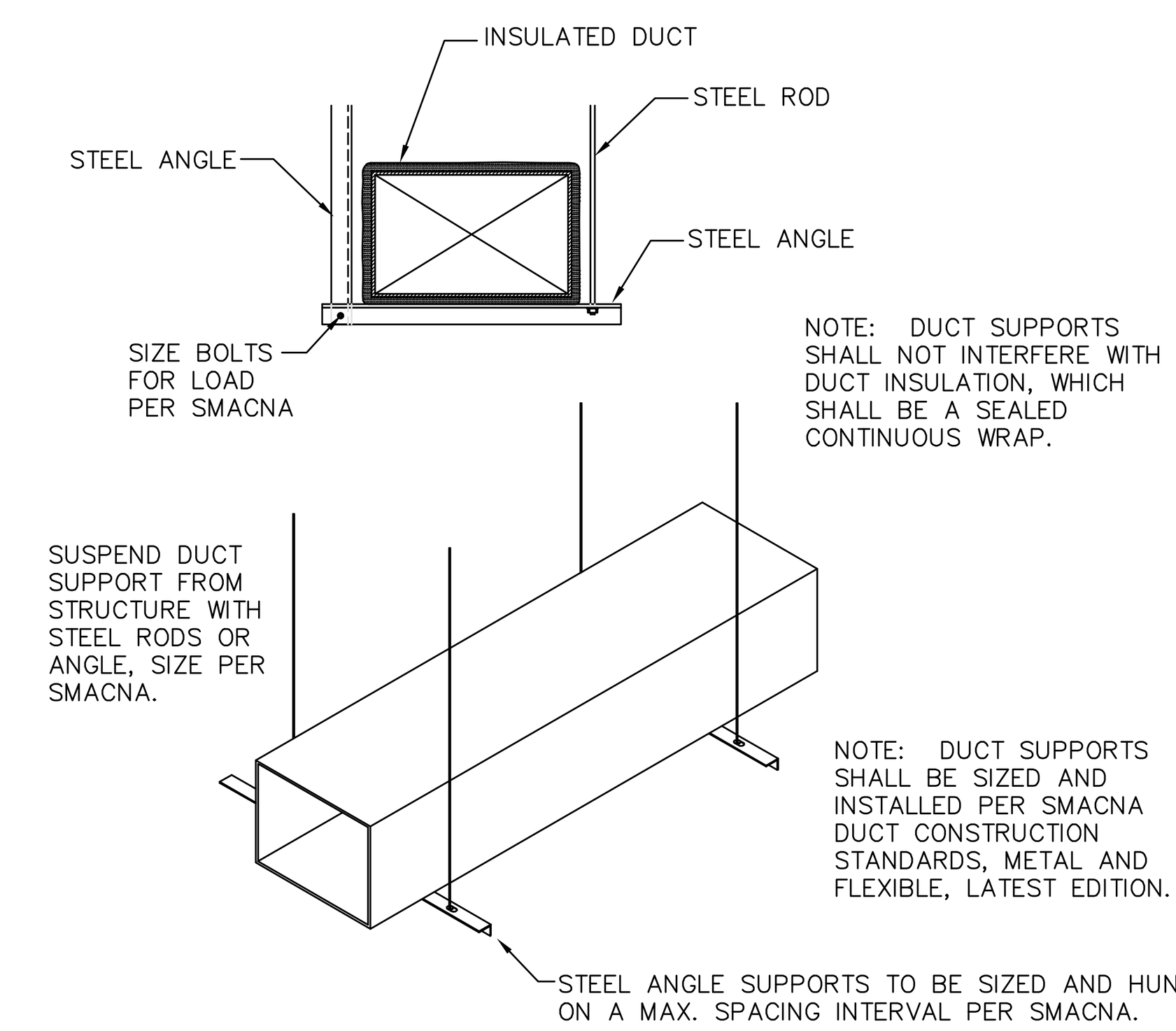
HANGER SPACING CHART

PIPE SIZE	ROD DIAM.	MAX. SPACING
1/2" – 1-1/4"	3/8"	7'
1-1/2"	3/8"	9'
2"	3/8"	10'
2-1/2"	1/2"	11'
3"	1/2"	12'
3-1/2"	1/2"	13'
4"	5/8"	14'
5"	5/8"	16'
6"	3/4"	17'
8"	3/4"	19'
10"	7/8"	22'
12"	7/8"	23'
14"	1"	25'
16"	1"	27'

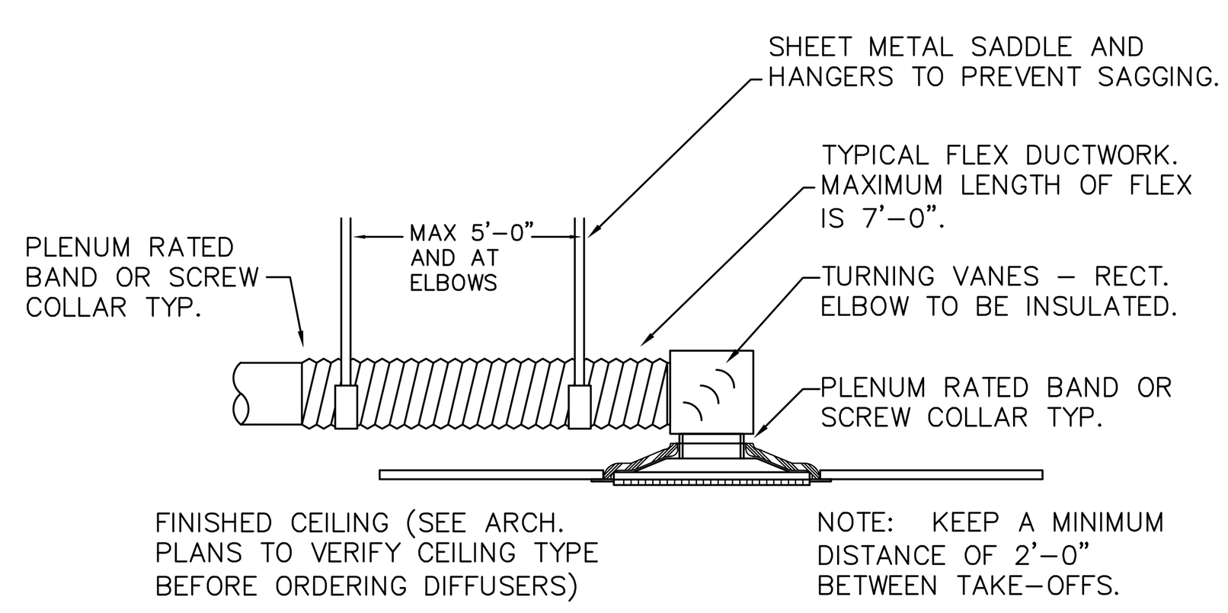
NOTE: ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH PIPE CLAMPS, AND SHALL BE PROTECTED BY 3" SHIELD INSIDE CLAMPS.

NOTE: ALL PIPE INSULATION LOCATED OUTSIDE OF BUILDING SHALL BE PROTECTED BY EMBOSSED METAL JACKETING.

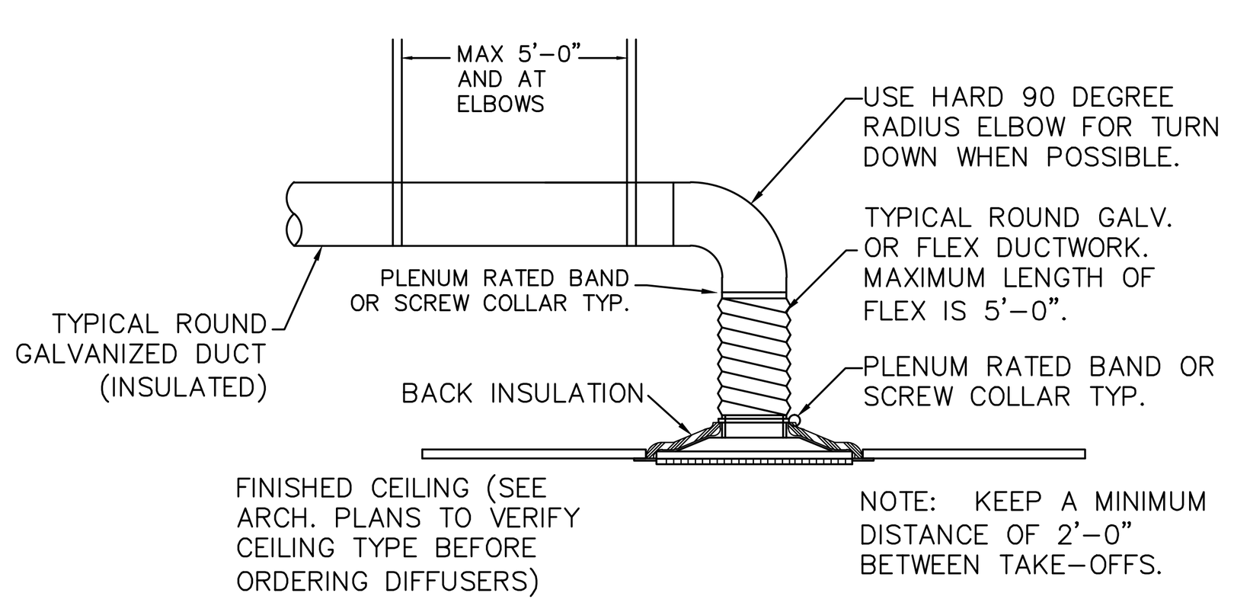
DP-8 TYP. PIPE HANGER DETAILS



DD-5A TYP. RECTANGULAR DUCT LOWER SUPPORT DETAILS

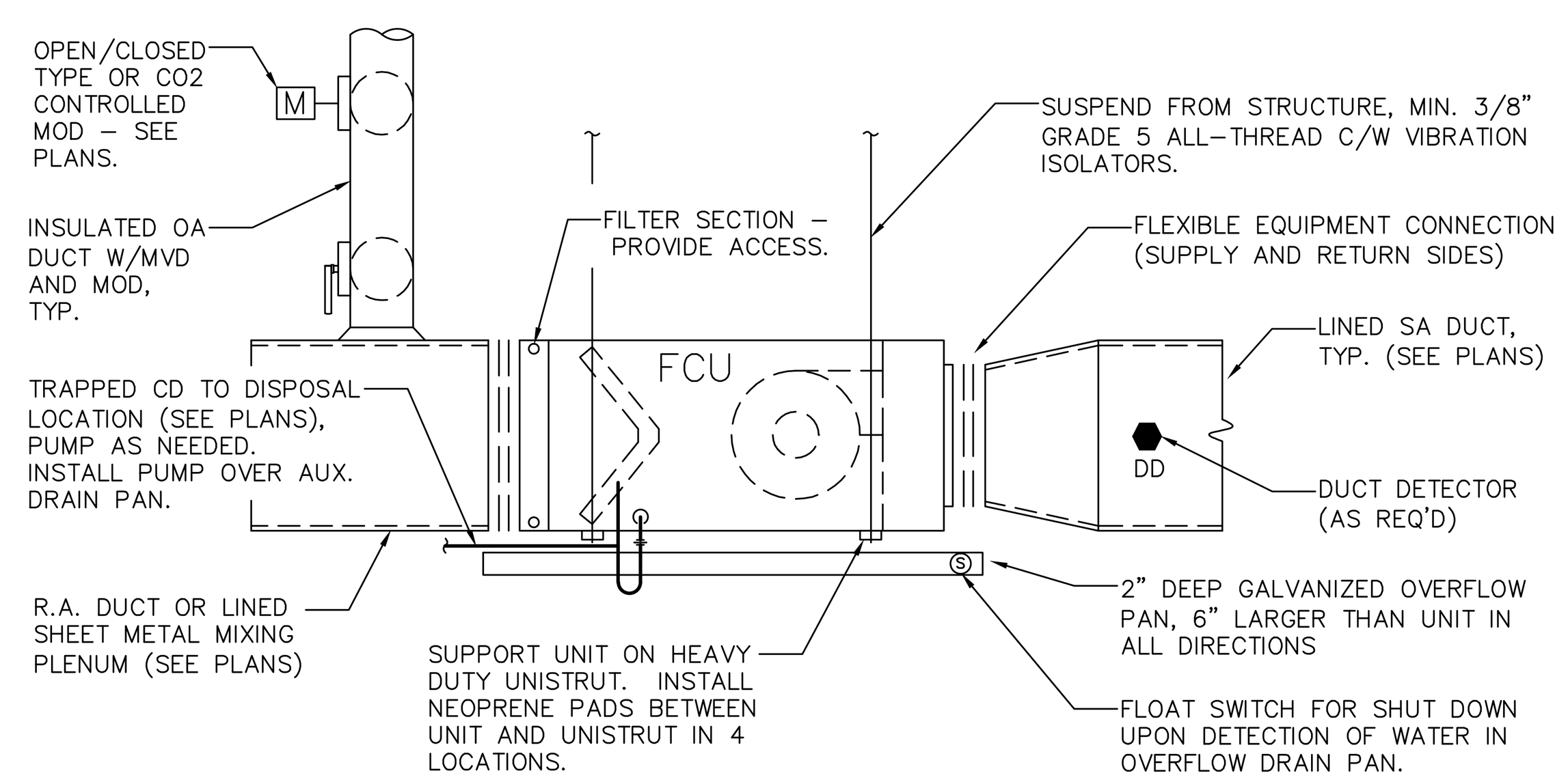


LOW CLEARANCE BRANCH DUCT DETAIL

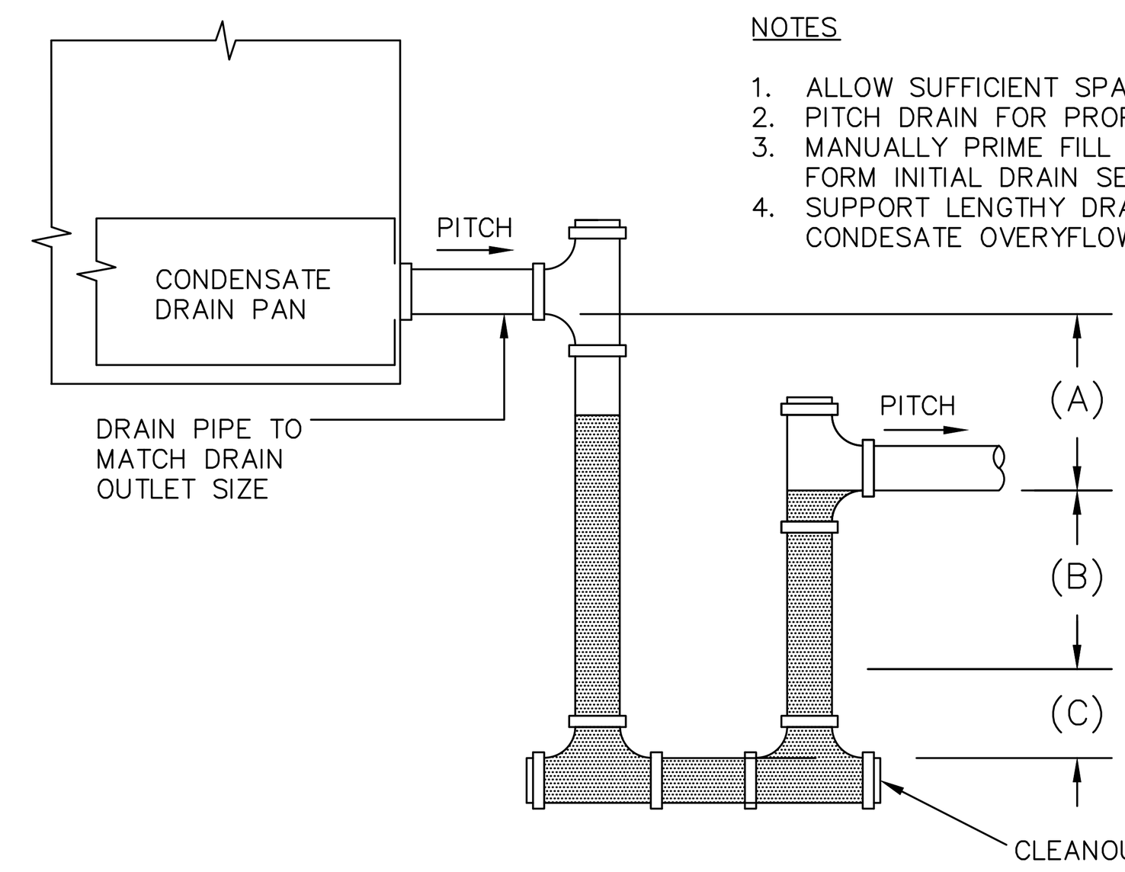


BRANCH DUCT DETAIL

DD-3 BRANCH RUN-OUT DETAIL



DE-14B TYP. HORIZONTAL FAN COIL OR AIR HANDLING UNIT DETAIL



NOTES

1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUNOFF.
3. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDESATE OVERYFLOW.

A. THIS DIMENSION IN INCHES MUST BE GREATER THAN THE MAXIMUM FAN SUCTION STATIC PRESSURE IN INCHES WC (WITH DIRTY FILTERS, COILS, AND MAXIMUM AIR FLOW).
B. THIS DIMENSION IN INCHES MUST BE GREATER THAN1/2 OF THE SAME MAXIMUM FAN SUCTION STATIC PRESSURE IN INCHES WC.
C. 1" WATER SEAL.

DP-1A DRAW THROUGH UNIT CONDENSATE TRAP DETAIL

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ISSUE DATE
11/14/16

SHEET TITLE : HVAC TYP. DETAILS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

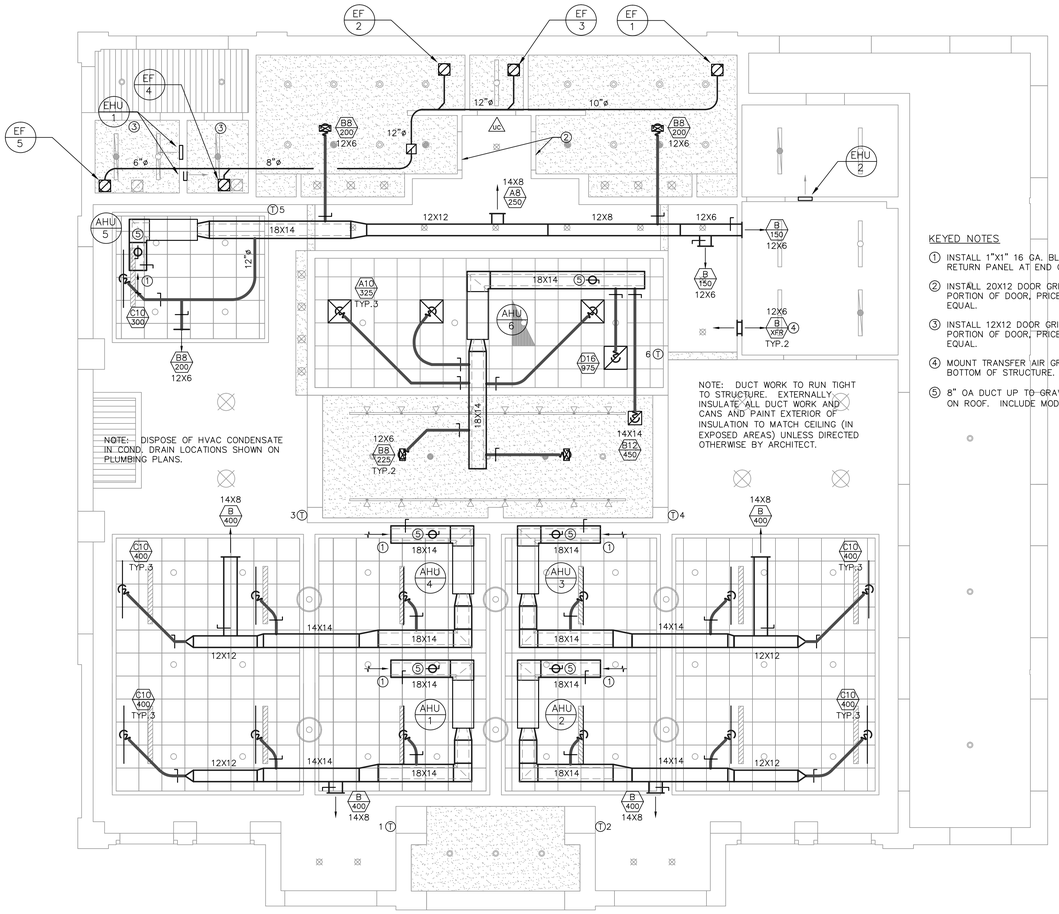
DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M0.2

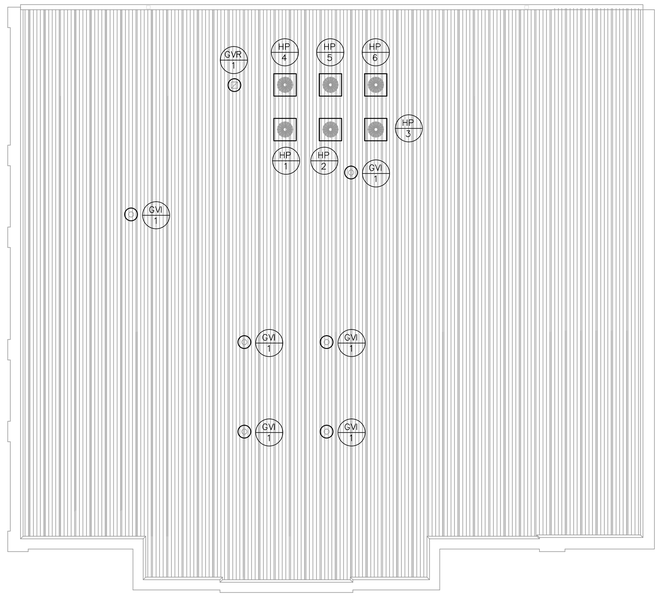


KEYED NOTES

1. INSTALL 1"X1" 16 GA. BLACK WIRE MESH RETURN PANEL AT END OF DUCT.
2. INSTALL 20X12 DOOR GRILLE IN LOWER PORTION OF DOOR, PRICE STG OR EQUAL.
3. INSTALL 12X12 DOOR GRILLE IN LOWER PORTION OF DOOR, PRICE STG OR EQUAL.
4. MOUNT TRANSFER AIR GRILLE TIGHT TO BOTTOM OF STRUCTURE.
5. 8" OA DUCT UP TO GRAVITY VENTILATOR ON ROOF. INCLUDE MOD/MVD IN DUCT.

HVAC PLAN

SCALE : 3/16" = 1'-0"



HVAC ROOF PLAN

SCALE : 1/8" = 1'-0"

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11/14/2016

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ISSUE DATE
11/14/16

SHEET TITLE : HVAC PLAN

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M1.1

SECTION 15010 – MECHANICAL GENERAL

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. Specification: This specification is intended to cover all portions of this building.

B. Reference Codes: This installation shall comply with the following codes and regulations, along with all Georgia amendments.

1. Current Georgia State Minimum Standard Mechanical Code.
2. Current NFPA No. 90A Installation of Air Conditioning and Ventilation Systems.
3. Current Georgia State Minimum standard Plumbing Code.
4. Current Georgia State Minimum Standard Gas Code.
5. Current NFPA #54 National Fuel Gas Code.
6. Current Georgia State Minimum Standard Gas Code.
7. Current NFPA No.70, National Electric Code.
8. Current Georgia State Minimum Life Safety Code.
9. Current Georgia State Minimum Standard Fire Prevention Code.
10. Current Georgia State Energy Code for Buildings

C. Reference Standards: This installation shall comply with the following standards.

1. Manufacturers Standardization Society of the Valve and fittings Industry (1815 North Ft. Meyer Drive, Arlington, VA 22209). MSS-SP-58-2002, called MSS-SP-58. MSS-SP-69-2003, called MSS-SP-69.
2. American Society of Heating and Ventilating and Air Conditioning Engineers Guide, Fundamentals, 2009 Edition.
3. Sheet Metal and Air Conditioning Contractor National Association (SMACNA) HVAC Duct Construction Standards, Metal & Flexible, 2005 Edition. Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems. 1986 Edition. Seismic Restraint Manual Guidelines for Mechanical Systems, Second Edition.
4. American Society of Sanitary Engineers (ASSE) Standard, Latest Edition.
5. North American Insulation Manufacturers Association (NAIMA) Fibrous Glass Duct Construction Standards.

1.2 REGULATIONS

A. Attention is called to the fact that all work shall be done in accordance with all applicable City, County and State regulations, which regulations shall be considered as minimum requirements, and shall not alter the arrangement and pipe sizes indicated on the plans, except where they conflict.

B. Contractor is responsible for obtaining all permits and paying all fees required to complete the Work

1.3 DRAWINGS

A. The work is shown on the project drawings and specifications.

1.4 PROTECTION OF PUBLIC

A. If the contractor must operate any potentially dangerous devices before all specified safety valves controls and devices are installed, he shall notify the Architect in writing. He shall not operate such devices under these conditions until arrangements for supervision by competent operators have been instituted and Architect's written approval has been issued.

1.5 EXCAVATION, SHORING AND BRACING

A. Excavate and back-fill for the installation of all underground work.

B. Provide all shoring and bracing to prevent cave-ins during the construction period.

1.6 SHOP DRAWINGS

A. Shop drawings shall be submitted for but not limited to the following items:

1. All Scheduled Equipment
2. Ductwork & Accessories
3. Hangers
4. Piping & Accessories
5. Supports
6. Vibration Isolation
7. Fixtures
8. Roof Portals
9. Control System
10. Duct Systems
11. Equipment Curbs
12. Insulation
13. Filters
14. Access Panels
15. Louvers
16. Refrigerant Pipe Sizes

B. Provide with the submittal package the proposed Test & Balance Company's credentials as described in Section 15950. Include a latter from the Test & Balance company indicating that they have read Section 15950 and will perform testing and balancing of the mechanical systems as described in that Section.

C. Provide a complete list of all accessories and options (indicate factory or field installed) for all scheduled mechanical equipment, including air distribution devices. Provide manufacturer generated specifications and ratings sheets for each individual piece of air conditioning and heating equipment. Generic photocopies from manufacturers catalog will not be accepted.

D. In addition to cut sheets, provide a summary sheet indicating exactly what pipe material joining methods, valves, etc. will be provided in the various piping systems.

E. The Contractor shall produce ¼"scale CAD-generated ductwork and piping shop drawing for every area of the building. Contractor shall coordinate all new mechanical systems with other Divisions, specifically including piping, lights, the building structure, and ceiling heights. It shall be the Contractor's responsibility to ensure that the mechanical work is coordinated with all other trades. The shop drawings submitted shall reflect this coordination in its entirety, including location of piping 2"and larger, all ductwork (except runouts to diffusers), and all equipment by dimensions to column lines. Bottom of duct and bottom of pipe dimensions shall be taken from finished floor, and shall be recorded on the shop drawings for review. Any interferences or conflicts not resolved during normal shop drawing coordination between trades shall be specifically noted to the Architect for his instructions. Conflicts arising out of work installed (or ductwork already fabricated) without shop drawings or shop drawings that have no been completely coordinated, shall be the Contractor's responsibility and at his expense for any necessary changes.

F. The Contract Drawings are diagrammatic and indicated generally the size and location of ductwork and equipment. While duct sizes shall not be decreased, it is recognized that job site conditions may require re-routing or re-sizing of ductwork, and the Contractor shall be responsible for this coordination. Ductwork that has to be re-sized and/or re-routed as a result of this coordination effort shall be the Contractor's responsibility and at his expense. Ductwork re-sized shall be equivalent to that shown on the drawings.

G. Steel fabrication shop drawings shall be coordinated with all Division 15 equipment and roof openings. The resulting coordination shall be confirmed and verification shall be submitted with associated equipment and roof curbs.

H. Division 15 shall coordinate with structural steel contractors to insure where ductwork is required to be routed within joist space that an alternate to x bracing is installed. Failure to coordinate shall subject the Contractor to full cost incurred to meet the design intact on the contract documents.

1.7 MOTORS, WIRING AND ELECTRICAL EQUIPMENT

A. All motors required for this work shall be built in accordance with the latest standards of National Electrical Manufacturer's Association, and shall be especially designed for quiet operation. All motors shall be selected for operation within their nameplate amperage. Adjustable bases shall be provided with motors and equipment which have belt drives.

B. All electrical materials shall comply with requirements of the National Electric Code. All contactors, starters, relays and panels used in this work, which are included in Underwriters Label Service, shall be new and bear the National Board of Fire Underwriters inspection label. Material not included in Underwriters Label service shall be new and conform to NEMA or other applicable industry standard.

C. Division 16, ELECTRICAL, provides for the furnishing of conduit and wire from electrical source to electrical use, called "path of power," and for the installation of certain line voltage devices specified in Division 15 which lie in the "path of power," including but not limited to:

1. Manual switches.
2. Line voltage thermostats.
3. Solid state speed controllers.
4. Operators for operable dampers.
5. Aquastats for domestic hot water circulating pumps.
6. Alarms for Flow Switches and Valve Supervisor Switches.

D. The "path of power" terminates at contactors or control panels of the following listed items of equipment. These control panels contain starters/contactors for the motors or heaters installed on or within the unit and are specifies in Division 15. Any wiring past the point of termination described above is Division 15 work.

1. Packaged Rooftop Units.
2. Domestic Water Heaters.
3. Make-up Air Units.
4. Condensing and/or Heat Pump Units.
5. Fan Coil Units.
6. Ductless Split Systems.
7. Electric Heaters.

E. Division 16, ELECTRICAL, provides for electrical power to any given item of equipment at the voltage and phase required by the primary use only. If the item of equipment contains devices such as fans, thermostats, motorized dampers or other controls which require other than primary voltage for their proper function, then transformers shall be furnished under Division 15 for that purpose.

F. Voltage and phase for Division 15 equipment shall be as specified by Division 16. Division 15 Contractor shall submit a list of all mechanical equipment requiring electrical connections to the Contractor prior to release of any equipment, for coordination with the Division 16 contractor. A copy of this list that has been reviewed and approved by the General Contractor shall be submitted to the Architect with the submittal for mechanical equipment. Failure to include this list may result in the rejection of the entire mechanical equipment submittal.

G. The control power source (point of connection for control power) for major equipment except those single phase fans which are thermostatically controlled and those items listed in C above, are provided at the combination starters.

H. The automatic control of signal for STOP-START of major equipment is furnished and installed to and from combination starts as part of Division 15.

I. All other conduit and wire, not in "path of power" described above is included in Division 15.

J. If any Division's Contractor makes a change by submittal, by delivery, by wiring rearrangement or power requirements, which results in increased costs, the Contractor initiating the change shall bear all cost increases.

K. All motors that are 1 HP and larger shall be high efficiency motors with nominal and minimum full load efficiencies equal to or greater than those specified by the State Energy Code. Specifications shall be submitted for each motor furnished.

L. Starters or contractors shall be furnished in Division 15 for each motor.

1. Magnetic starters shall be NEMA standard sizes adequate for the load served, Size 00, 1, 2, 3, 4. Half sizes and/or quarter sizes are not acceptable.
2. Overload relays shall be unit constructed, hand reset melting alloy type, and shall be provided for all ungrounded legs.
3. Units shall have NEMA-1 enclosures, three thermal overloads in three-phase starts, HAND-OFF-AUTO switches as required by the "controls" specification section.
4. All fractional HP single-phase motors shall have internal thermal overload protection except where starters are scheduled.
5. All motor starters shall be of the same manufacturer and shall be General Electric Type CR-306, or equal by Square-D, Westinghouse, Allen-Bradley, Furnas, Siemens, or Cutler-Hammer subject to full compliance with all criteria.

M. Where power wiring to Division 15 equipment is not within the equipment curb, roof curb and boots shall be provided under Division 16. The portal location shall be coordinated with Division 15 equipment power inlet requirements, and located not to block access for equipment servicing.

1.8 ACCESS PANELS

A. Shall be provided to permit operation of concealed valves, dampers, or equipment. The following table lists types of Bilco access frames and doors. Panels of equivalent construction by Titus, Milcor, Hohmann, and Barnard or Zurn are acceptable.

B. Wall:

1. Sheetrock Style G
2. Plaster Style A
3. Masonry Style C

C. Ceiling:

1. Sheetrock Style G
2. Plaster Style A
3. Concealed spline Style D
4. Lay-in tile None

D. Fire Rated Wall or Ceiling Style F (U.L Listed)

E. Sizes shall be: Small valves – 12"x 12". Multiple valves and dampers – 24"x 24"

F. Access panels shall be insulated for sound barrier equal to wall in which it is installed.

G. Acoustical Tile: Coordinate with tile installed to provide a removal tile at access point. Install a colored thumb tack to mark the access panel of above ceiling equipment, control instrument, valves or relay.

1.9 WARRANTY

A. The Contractor shall operate the air conditioning, heating and ventilating systems and plumbing systems for a period of one week to the satisfaction of the Architect. Thereafter, the Contractor shall guarantee and be responsible for all materials and workmanship (parts and labor) for a period of one (1) year following the date of acceptance by the Architect.

B. The Contractor shall also provide maintenance for the one (1) year period by providing four (4) periodic inspections at approximately three-month intervals, which shall include the following.

1. Check all bearing, align and oil or grease.
2. Check belt tensions and pulley adjustment and adjust as necessary.
3. Check filters and advise Owner when change is necessary.
4. Check refrigerant charges and oil levels and replenish as necessary.
5. Check and re-calibrate controls as necessary.

C. Any required maintenance for the above shall be performed and materials needed shall be furnished by the Contractor. Not included in the materials to be furnished by the Contractor are fuel, electricity, water and filters. Provide the Owner with four (4) copies of the inspection reports indicating all items checked and adjustment or repairs performed.

D. Water heaters shall be guaranteed for five years; parts and labor.

E. All equipment compressors shall be guaranteed for five years; parts and labor.

1.10 CUTTING AND PATCHING

A. The Contractor shall set sleeves for pipes, ducts and equipment accurately before the concrete walls and floors are poured.

B. Should the contractor neglect to perform this preliminary work and should cutting and patching be required in order to install the piping, ductwork or equipment, then the expense of the cutting and restoring of surfaces to their original condition shall be borne by the Contractor.

1.11 BASIS OF DESIGN

A. When brand, trade or manufacturer's names are used for basis of design, they are used in the interest of brevity to describe the style, type, size, quality or arrangement of articles of equipment and are not intended to limit competition. If articles of equipment by manufacturers other than basis of design are submitted for installation, the Architect shall compare them with specified articles of equipment on basis of qualities mentioned. The size, weight and arrangement of other equipment shall be checked by the Contractor to ascertain that it can be installed, connected, operated, and serviced successfully, and that walking space and service space can be maintained without altering equipment space or enclosures or the work of other trades. Manufacturers not listed as "Acceptable Manufacturers" will not be considered.

B. If any Division's Contractor makes a change by submittal, by delivery or by wiring rearrangement which results in increased costs, the Contractor initiating the change shall bear all cost increases.

1.12 AS-BUILT DRAWINGS

A. Per the Georgia State energy Code, the Contractor shall produce and submit to the Architect, "As-Built" drawings, four (4) copies, as described below.

B. As work progresses, neatly and clearly record on four (4) sets of mechanical plans (in red) all changes and deviations from the contract drawings in size, locations, etc., of all piping, ductwork terminal units and other equipment. Record (in red) final location of piping, ductwork, starts, valves, thermostats, etc., by dimensions to adjacent walls and floors. Make sufficient measurement to accurately locate all equipment. Locate underground lines by dimension from building walls.

1.13 OPERATION AND MAINTENANCE MANUALS

A. Operation and Maintenance manuals (6 sets) shall be provided to the Owner or the Owners designated representative. Manuals shall be in accordance with the Georgia State Energy Code for Buildings.

1. Manuals shall include as a minimum the following:
   a. Final, corrected submittal data with equipment sizes and selected options for each piece of equipment, including Engineer's submittal review comments.
   b. Current manufacturer's published operation and maintenance manuals for each piece of equipment.
   c. Name, address and phone number of at least one LOCAL service agency.
   d. HVAC controls system maintenance and calibration information including wiring diagrams, schematics, and control drawings.
   e. Complete narrative of how each system is intended to operate, including suggested set-points.
   f. Copy of the final Test & Balance report.
   g. Copy of the final As-built drawings.
   h. Controls certification letter.
   i. Copy of Engineer's final punch list items, with each item checked off when completed or an explanation of why the item was not completed.

1.14 INTERFACES WITH OTHER WORK

A. There are many interfaces between the work involved with Division 15 and the work involved with other Sections and Divisions, particularly with Division 16. Contractor shall be aware of the requirements of these other Sections or Divisions and his responsibilities at the interfaces.

B. No mechanical equipment, piping, or ductwork shall be places within 42"of switchboards and/or panel boards.

C. No water piping (domestic, storm, sanitary, etc., except sprinkler piping when required) shall be located above electrical switchboards and/or panel boards. When sprinklers are required, shields must be provided over the panels.

1.15 EQUIPMENT IDENTIFICATION

A. Equipment Identification:

1. All mechanical equipment shall be labeled with Bakelite nameplates with 2"high white letters on a black background, securely affixed to equipment for outdoor or indoor service.
2. Equipment Identification numbers shall be the same as those scheduled on the design drawings. Identification shall be located where it can be conveniently read, and shall be located in the same relative position on like equipment.
3. In addition to the above ID tags, all scheduled equipment shall be provided with permanent factory installed engraved nameplate labels listing complete model and serial numbers, unit voltage, motor sizes, etc.
4. Identify all disconnect switches that are not directly attached to the equipment that they serve, with identical ID tags as specified above for the equipment.

1.16 PIPE IDENTIFICATION

A. All piping systems shall be identified.

1. All piping systems within the building except as noted herein shall be identified with clear block letters and number stenciled on the outside surface of the pipe or insulation, indicating the system contents by abbreviated letters and direction of the flow.
2. This identification marking shall be applied to the pipe systems where pipe enters or leaves a wall or floor, and item of equipment such as pumps, fan coil units and tanks, and at tees. Identification shall be applied no less than 50 feet apart on horizontal pipe; and one identification per floor on vertical pipe.
3. Letters and numbers shall be high on pipe 2"and smaller.
4. Letters and numbers shall be 1"high on pipe 3"and larger.
5. Directional arrows shall be 4"long and "wide.
6. Letters and numbers shall be black on white pipe or insulation.
7. Letters and number shall be white on dark pipe or insulation.
8. Pipe identification symbols shall be the same as shown on the drawings.
9. Soil, vent and refrigerant piping shall not be identified.

1.17 PERMITS AND INSPECTIONS

A. The Contractor shall secure and pay for all permits, fees, inspections, and utility connection costs.

B. BOILER TEST CERTIFICATES: It shall be the Contractor's responsibility to have each boiler, large (greater than 120 gallon capacity) water heater, and pressure vessel inspected by a State of Georgia certified inspector upon installation. Each inspection report shall be submitted to the Georgia Department of Labor, Safety Engineering Section, 1700 Century Circle, Atlanta, Georgia 30345 to the attention of Direction of Engineering, PLUS a copy of each report transmitted to the Architect. ONE additional copy of each report shall be included in EACH of the FOUR Close-Out Manuals.

1.18 EQUIPMENT & MATERIAL PROTECTION

A. All equipment and material shall be kept clean and free of debris as construction progresses. Closures shall be provided over duct, piping and major equipment openings during storage, erection and prior to connection. Material finishes shall be protected by covers to prevent impingement of corrosive, abrasive and disfiguring foreign matter. Accidental finish damage shall be repaired equivalent to original finish.

1.19 TEST, BALANCE AND REPORT

A. See Section 15950.

1.20 PROHIBITED MATERIALS

A. All products, materials or assemblies which contain asbestos or polychlorinated biphenyl (PCB) in any form or in any concentration whatsoever, are expressly forbidden from being used on this project.

1.21 SITE VISIT AND FAMILIARIZATION

A. Contractors proposing to undertake work under this Division shall visit the site of the work and fully inform themselves of all conditions that effect the work or cost thereof, examine the drawings and specifications as related to the site conditions, and acquaint themselves with the utility companies from whom services will be supplied; verify locations of utility services and determine requirements for connections.

B. Consideration will not be granted for any alleged misunderstanding of the amount of work to be performed. Tender of proposal shall convey full agreement to all items and conditions specified, indicated on the drawings, and/or required by nature of the site.

C. Attention is called to the fact that this scope of work includes renovation to an existed facility and/or an addition to an existing building. When the work is finished, the mechanical systems shall be complete in every respect, and completely integrated with all affected mechanical and control systems.

D. Existing mechanical systems in the existing facility shall not be interrupted without prior approval of the Owner or Architect.

1.22 DISINFECTION AND TESTING OF WATER SYSTEM

A. Sanitize plumbing potable water systems after cleaning and pressure tests, with chlorinated potable water solution to 200 ppm chlorine residual after 24-hours minimum, then flushed with fresh potable water until effluent chlorine content does not exceed make-up. Water samples shall be sent to Local Health Department (LHP) for testing. A letter of approval must be obtained from the LHD before the system is put into service.

B. All domestic water piping shall be disinfected with chlorine before it is placed into operation. The chlorinating material shall be liquid chlorine conforming to Federal Specification BB-C-120 and shall be introduced to the system by experienced operators only. The chlorine solution applied to the piping sections or system shall contain at least fifty (50) parts per million of available chlorine and shall remain in the sections or system for a period of not less than sixteen (16) hours. During the disinfection period all valves shall be opened and closed at least four (4) times. After the disinfection period, the chlorinated water shall be flushed from the system with clear water until the residual chlorine content is not greater than two-tenths parts per million (0.2PPM). Submit certification to the Architect and Owner that the system was disinfected.

END OF SECTION

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REVISION #	DATE / COMMENTS

SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : HVAC SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M2.1

SECTION 15850 – AIR DISTRIBUTION

PART 1 GENERAL

1.1 GENERAL

A. Section 15010 is applicable.

B. All general conditions of the contract apply.

1.2 BASIS OF DESIGN

A. Acceptable manufacturers for products specified under this section are listed below.
1. Flexible duct: Thermaflex, Flexmaster, Clecon
2. Flexible equipment connections: Durodyne, Ventafabrics
3. Volume control dampers: Ruskin, Greenheck, Nailor, United, Price
4. Fire/Smoke dampers: Ruskin, Greenheck, Nailor, United
5. Air diffusers and grilles: Price, Titus, Nailor, Metalaire

1.3 PRESSURE

A. All new supply, return, outdoor air, and exhaust air ducts are to be STD, 1"static pressure type, class "A"seal, ASHRAE/SMACNA.

PART 2 PRODUCTS

2.1 METAL DUCTWORK

A. Duct work shall be rectangular, oval, or round as shown on plans, and shall be fabricated from ASTM A653/A653M galvanized steel sheet, lock–forming quality. All fasteners shall be galvanized steel.

B. Fabricate and support rectangular ducts in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.

C. Fabricate and support round ducts with longitudinal seams in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible (Round Duct Construction Standards). Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
1. Construct T's, bends, and elbows with minimum radius 1–1/2 times centerline duct width. Where not possible and where rectangular elbows are used, provide turning vanes. Where acoustical lining is indicated, furnish turning vanes of perforated metal with glass fiber insulation.
2. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.
3. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gages indicated in SMACNA Standard. Minimum 4 inch cemented slip joint, brazed or electric welded. Prime coat welded joints.
4. Provide standard 45–degree branch takeoffs per plans. When space does not allow 45–degree lateral wye takeoff, use 90–degree conical tee connections.
5. Seal ducts to ASHRAE/SMACNA Class A standard. No cloth duct tape will be allowed.

2.2 FLEXIBLE DUCTWORK

A. Flex ducts connections are for connecting round galvanized duct to air distribution devices. Maximum allowed length of any flex duct section shall be 5'–0". Flex duct shall be two ply vinyl film supported by helical wound spring steel wire; fiberglass insulation; vapor barrier film. Minimum R–6, max velocity 4000 fpm, pressure raing 10 iwg positive and 1 iwg negative. Temperature rating –20 degrees F to 200 degrees F. Basis of design is Thermaflex MK–E.

2.3 FLEXIBLE EQUIPMENT CONNECTIONS

A. Flexible connections shall be used for all duct connections to HVAC equipment and fans. Flexible connections shall be per SMACNA chapter 7, Figure 7–7 and 7–8. Flexible material for indoor installation shall be airtight heavy glass fabric, double coated with neoprene.

2.4 VOLUME CONTROL DAMPERS

A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible, and as indicated on Drawings.

B. Fabricate splitter dampers of material matching duct gage to 24 inches size in each direction, and two gages heavier for larger sizes. Secure with continuous hinge or rod. Operate with minimum 1/4 inch diameter rod.

C. Fabricate single blade dampers for duct sizes to 12 x 30 inch. Fabricate multi–blade damper of opposed blade pattern with maximum blade sizes 8 x 72 inch. Assemble center and edge crimped blades in prime coated or galvanized channel frame with suitable hardware.

D. Furnish locking, indicating quadrant regulators on single and multi–blade dampers with 2"standoff brackets. Where width exceeds 30 inches, furnish regulator at both ends.

2.5 FIRE DAMPERS

A. Damper shall be UL 555 listed and labeled as a 1–1/2 hour static fire damper. UL approved for dual directional air flow. Integral Sleeve Frame: Minimum 20 gage by 12 inches roll formed, galvanized steel. Apply factory sealant to dampers in HVAC systems with pressures to maximum 4 inches wg. Mill galvanized finish.
1. Blades:
   a. Style: Curtain type, out of airstream.
   b. Action: Spring or gravity closure upon fusible link release.
   c. Orientation: Horizontal or vertical as indicated on plans.
   d. Material: Minimum 24 gage roll formed, galvanized steel.
2. Closure Springs: Type 301 stainless steel, constant force type, if required.
3. Temperature Release Device: fusible link, 165 degrees F.

B. Type "B"fire dampers shall have no less than 90% free area, shall have 160 degree F fusible link, and integral 12"long 20 gauge integral sleeve and preformed picture frame mounting angles. Basis of design is Ruskin IBD2 Style B.

C. For applications where damper is in wall without interconnecting duct, or where noted as such, damper frame shall be size shown on drawing and shall be type A.

D. For applications where damper is in wall with a grille on both sides or on one side, use thin line type A damper, Ruskin IBDT or approved manufacturer listed above.

E. Provide hinged, insulated access panels with part turn latches in ductwork to all fire dampers where access is not otherwise possible. Duct access panels shall be insulated and stenciled "F.D."with 2"high black letters on light surfaces, light letters on dark surfaces.

F. Picture Frame Mounting Angles:
1. One–piece, roll formed retaining angles 1–1/2 x 1–1/2 inches.
2. Factory matched and shipped attached to damper.

2.6 TURNING DEVICES AND EXTRACTORS

A. Multi–blade device with blades aligned in short dimension; steel or aluminum construction; with individually adjustable blades, mounting straps.

B. Multi–blade device with radius blades attached to pivoting frame and bracket, steel or aluminum construction, with push–pull operator strap.

2.7 INSPECTION PANELS

A. Inspection panels shall be installed in plenums and ductwork in order to facilitate inspection of filters, fans, dampers, and coils. Panels into spaces large enough for a person to enter shall be 24"x24"minimum. Panels into smaller spaces shall be 12"x12" minimum. Panels in insulated metal duct shall be 22 gauge galvanized frame with 24 gauge galvanized steel door panel and shall be gasketed, double wall insulated with 1" fiberglass insulation. Panels shall be piano hinged on one side with galvanized cam lock on the other. Inspection panels with sheet metal screw fasteners are not acceptable.

2.8 AIR OUTLETS AND INLETS

A. Air diffusers and grilles are scheduled on the plans. No on–board dampers shall be allowed for ceiling mounted diffusers and grilles. Dampers should be purchased and installed separately at the point of each branch take–off from trunk ducts.

2.9 FILTERS

A. Normal operating filters for all systems shall be disposable pleated media type filter of a size standard for the unit(s) installed.

B. Construction phase filters shall be dry fiberglass media, double wall box panel type, of a size standard for the unit(s) installed. Only construction phase filters shall be used during construction, and normal operating filters shall be installed by contractor after final punch–out. Construction phase filters shall be checked regularly as the project progresses and changed as needed. Units shall not be run without filters.

C. For projects with DDC systems, dirty filter switches shall be installed on equipment filters to indicate, through the DDC, when these filters are dirty.

2.10 ELECTRICAL CHARACTERISTICS AND COMPONENTS

A. Electrical characteristics of powered equipment are shown on the Div. 16 plans.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify sizes of equipment connections before fabricating transitions.

B. Verify rated walls are ready for fire damper installation.

C. Verify ducts and equipment are ready for installation and accessories.

D. Check location of air outlets and inlets and make necessary adjustments in position to conform to architectural features, symmetry, and lighting arrangement.

3.2 FIRE DAMPERS

A. Install fire dampers at locations shown on drawings. Installation of fire dampers shall comply with SMACNA Fire, Smoke, and Radiation Damper Installation Guide for HVAC systems.

1. Basic installation	Figure 1
2. Breakaway connections	Figure 2
3. Specific Installation	Figure 5
4. Damper out of wall	Figure 12
5. Opening protection	Figure 15

B. Fire damper openings in metal stud walls shall be internally framed on four sides from vertical members for rigid support of opening with internal gypsum board liner per SMACNA installation guide or manufacturer's guidelines for installation in metal stud walls.

3.3 METAL DUCTS

A. Install in accordance with SMACNA Duct Construction Standards – Metal and Flexible, for pressures and seal as specified herein.

B. During construction install temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.

3.4 FLEXIBLE DUCTS

A. Flex duct connections shall be made with a band on inner liner and another band to secure vapor jacket. Max length of any flexible duct section is 5'–0". Tape all loose ends with foil tape, no cloth duct tape is allowed.

3.5 FLEXIBLE EQUIPMENT CONNECTIONS

A. Install on inlets and outlets of all powered equipment prior to any duct hangers. Manufacturer shall provide with equipment where option is available. Install connecting duct in a straight line with equipment connection, and prevent flexible connection from being in tension while equipment is running.

3.6 DUCT SMOKE DETECTORS

A. Shall be provided and wired by Division 16, installed in duct by Division 15.

3.7 FILTERS

A. Prevent passage of unfiltered air around filters by installing felt, rubber, or neoprene gaskets.

B. Install filter gage static pressure tips upstream and downstream of filters. Mount filter gages on outside of filter housing or filter plenum, in accessible position. Adjust and level.

3.8 INSPECTION PANELS

A. Install inspection panels at the following locations and as indicated on drawings:
1. Before and after each automatic control damper.
2. Before and after each fire, smoke, and/or combination fire and smoke damper.

B. Access Door Sizes: Install minimum 12 x 12 inch size for hand access, 18 x 18 in. size for shoulder access. Review locations prior to fabrication.
1. Mark access doors for fire and smoke dampers on outside surface, with minimum 2 in. high letters reading: FIRE/SMOKE DAMPER, SMOKE DAMPER, OR FIRE DAMPER.

3.9 AIR DIFFUSERS AND GRILLES

A. Install balancing dampers for diffusers and grilles at branch take–off from main trunk, no dampers allowed on–board diffusers or grilles unless explicitly specified on plans. Do not install manual volume dampers next to grilles unless required by field conditions.

B. Do not locate air registers, diffusers or grilles in floors of toilet or bathing rooms.

C. Paint ductwork, cans, and plenums visible behind air outlets and inlets matte black.

D. Install safety screen where fan inlet or outlet is exposed.

END OF SECTION

SECTION 15700 – HVAC INSULATION

PART 1 GENERAL

1.1 GENERAL

A. Section 15010 applies.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN

A. Manufacturers shown below as Basis of Design
1. Acceptable Manufacturers for Glass Fiber and Mineral Fiber Insulation Products: CertainTeed, Knauf, Johns Manville, Owens–Corning.
2. Acceptable Manufacturers for Closed Cell Elastomeric Insulation Products: Aeroflex Aerocell, Armacell Armaflex, Nomaco K–flex.

2.2 DUCT INSULATION

A. Supply, Return, Exhaust, and Outdoor Ventilation Ducts
1. Duct liner: ASTM C1071, Type I, flexible, glass fiber duct liner with 100% coated air side. Minimum density 1.5 lb/ft3.
2. Externally insulated: All sheet metal supply, return, and outdoor ventilation ducts shall be insulated on the outside with a Formaldehyde–free, flexible glass fiber blanket. Insulation shall have a minimum installed R–value of R–6 and have a Type 75 facing. Insulation shall be provided with a factory–applied facing with a composite UL HFC rating of 25/50. Basis of Design: Johns–Manville Microlite XG Formaldehyde–free Fiber Glass Duct Wrap.
3. All supply, return, and outdoor ventilation air ducts shall be completely insulated on the outside.
4. Exhaust ducts shall be insulated within 10 feet of exterior openings.
5. Duct shown as internally lined shall be also externally insulated as needed to bring total R–value to required level.

2.3 PIPE INSULATION

A. Condensate Piping
1. ASTM C534, Type I, flexible, closed cell elastomeric insulation, tubular.
2. Thermal Conductivity: 0.27 at 75 degrees F.
3. Operating Temperature Range: Range: Minus 70 to 180 degrees F.
4. Thickness: 1/2"thickness for all pipe sizes.

B. Refrigerant Piping
1. Suction piping shall be insulated with Johns–Manville Aerotube II pipe insulation slid over tubing without cutting, min. R–3. All joints and seams shall be sealed with mastic.

PART 3 EXECUTION

3.1 INSTALLATION – DUCT SYSTEMS

A. Verify all surfaces are clean and dry before applying insulation.

B. Butt joints of insulation together to obtain total coverage. Do not compress the insulation. Tape all joints.

C. Mechanical fasteners: weld or adhesive applied pins shall be used to secure insulation to bottom of ducts 20"wide or wider. Install 18"on centers, both directions.

D. Place holding washers over weld pins firmly, do not compress insulation, clip of excessive length of pin, cover with 4"length of tape.

E. Where 2"flaps are provided, use adhesive to obtain full 2"coverage in lieu of tape.

F. Repair breaks, holes, and perforations to full thickness flush with adjoining surface, with new sections if large, with tape on small areas so that 2"of tape or replacement foil–kraft project away from the imperfection.

G. Insulation on round ducts may be wired in place with soft monel wire, 12"O.C., with joints taped and vapor sealed.

H. Cover flexible equipment connections on air conditioning units with specified supply/return duct insulation. Lap connection 6"and secure 2"edge flap with adhesive.

3.2 INSTALLATION – PIPING SYSTEMS

A. Verify piping has been tested before applying insulation materials. Verify surfaces are clean and dry, with foreign material removed. Piping Exposed to View in Finished Spaces: Locate insulation and cover seams in least visible locations.

B. Continue insulation through penetrations of building assemblies or portions of assemblies having fire resistance rating of one hour or less. Provide intumescent firestopping when continuing insulation through assembly. Finish at supports, protrusions, and interruptions.

C. Piping Systems Conveying Fluids Below Ambient Temperature:
1. Insulate entire piping system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
2. Furnish factory–applied or field–applied vapor retarder jackets. Secure factory–applied jackets with pressure sensitive adhesive self–sealing longitudinal laps and butt strips. Secure field–applied jackets with outward clinch expanding staples and seal staple penetrations with vapor retarder mastic.
3. Insulate fittings, joints, and valves with molded insulation of like material and thickness as adjacent pipe. Finish with glass cloth and vapor retarder adhesive or PVC fitting covers.

D. Inserts and Shields:
1. Piping 1–1/2 inches Diameter and Smaller: Install steel shield between pipe hanger and insulation.
2. Piping 2 inches Diameter and Larger: Install insert between support shield and piping and under finish jacket.
   a. Insert Configuration: Minimum 6 inches long, of thickness and contour matching adjoining insulation; may be factory fabricated.
   b. Insert Material: Compression resistant insulating material suitable for planned temperature range and service.
3. Piping Supported by Roller Type Pipe Hangers: Install galvanized steel shield between roller and inserts.

E. Condensate Piping: Insulate entire piping system and components inside the building space to prevent condensation.

F. Closed Cell Elastomeric Insulation:
1. Push insulation on to piping, miter joints at elbows.
2. Seal seams and butt joints with manufacturer's recommended adhesive.
3. When application requires multiple layers, apply with joints staggered.
4. Insulate fittings and valves with insulation of like material and thickness as adjacent pipe.

G. Refrigeration suction piping shall be insulated through pipe clamps and hangers, provide insulation shields when insulation passes through clamps and hangers.

H. Pipe Exposed in Mechanical Equipment Rooms or Finished Spaces: Finish with PVC jacket and fitting covers. Labels on exterior covers should be oriented so as to be easily readable and shall have directional flow arrows.

I. Buried Piping: Insulate only where insulation manufacturer recommends insulation product may be installed in trench, tunnel or direct buried. Install factory fabricated assembly with inner all–purpose service jacket with self–sealing lap, and asphalt impregnated open mesh glass fabric, with 1 mil thick aluminum foil sandwiched between three layers of bituminous compound; outer surface faced with polyester film.

END OF SECTION

SECTION 15950 – TESTING, ADJUSTING, AND BALANCING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Testing, adjusting, and balancing of air systems.

B. The Contractor shall obtain the services of an independent test, adjustment, and balance (TAB) agency to test, adjust, and balance:
1. Each supply, return, exhaust, relief, and outdoor air distribution systems.

C. The Contractor and the TAB Agency shall review the proposed system installations and determine all measuring and balancing devices required for proper test and balance of the systems. These shall include, but not be limited to, manual air volume balancing dampers, etc. The Contractor shall be responsible for providing these in the locations recommended by the TAB Agency, in addition to any shown on the drawings. These devices shall be provided under the Contract.

D. Instruments used for testing and balancing shall have been calibrated within a period of six months of the time of the testing and balancing and such instruments shall be checked for accuracy prior to the start of the work. Submit verification for certification to the Architect and the Owner.

E. Perform Work in accordance with AABC National Standards, latest addition. TAB shall include all equipment and distribution systems and shall be reported, as a minimum, on forms as published by the AABC, NEBB, or approved equal. Report shall include a diagram(s) of each system showing all devices in the system.

F. The TAB Agency shall, unless approved by the Owner, be an AABC or NEBB member and the work shall be done by an AABC or NEBB certified TAB Technician and Commissioning Agent.

G. All corrections required by the report shall be executed by the Contractor to the satisfaction of the Owner, Architect, Engineer, and TAB agency. All costs associated with testing and balancing, as well as costs of any necessary re–testing, shall be borne by the Contractor.

H. Testing and Balancing Agency shall be kept informed of any major changes made to the systems during construction, and shall be provided with a complete set of contract documents, as–built drawings, approved submittals, applicable specification sections, addenda and change orders.

1.2 SUBMITTALS

A. Draft Reports: Submit for review prior to final acceptance of Project.

B. Test Reports: Submit prior to final acceptance of Project and for inclusion in operating and maintenance manuals. Assemble in soft cover, letter size, 3–ring binder, with table of contents page and tabs, and cover identification. Include reduced scale drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.

PART 2 EXECUTION

2.1 EXAMINATION

A. Before starting work, verify systems are complete and operable.

B. The TAB Agency shall check refrigerant superheat settings.

C. The TAB Agency shall test drain pans for proper drainage under operating conditions.

D. Report defects, deficiencies, or abnormal conditions in mechanical systems preventing system balance to Owner, Architect, and Engineer.

E. Beginning of work means acceptance of existing conditions.

2.2 INSTALLATION TOLERANCES

A. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.

B. Air Outlets and Inlets: Adjust to within plus or minus 10 percent of design.

2.3 AIR SYSTEM PROCEDURE

A. Examine all air handling systems to see that they are free from obstructions that may prevent proper balancing of system.

B. Ensure that all dampers, grilles, and registers are open or in normal positions, that moving equipment is lubricated, filters are installed and clean, and perform other inspection and maintenance activities to ensure that the operation of the system is as specified.

C. Adjust air handling and distribution systems to deliver design supply, return, and exhaust air quantities within previously stated tolerances.

D. Make air quantity measurements in ducts by traverse of entire cross sectional area of duct.

E. Measure air quantities at air inlets and outlets.

F. Use volume control devices to regulate air quantities only to extent those adjustments do not create objectionable air motion or sound levels. Change volume using dampers mounted in ducts, not dampers on ceiling diffusers. Leave dampers on ceiling diffusers open for seasonal adjustment by Owner.

G. Vary total system air quantities by adjustment of fan speeds. Vary branch air quantities by damper regulation.

H. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across fan. Allow for pressure drop equivalent to 50 percent loading of filters.

I. Adjust automatic outside air, return air, and exhaust air dampers for design conditions.

J. Measure temperature conditions across outside air, return air, and exhaust air dampers to check leakage.

K. At modulating damper locations, take measurements and balance at extreme conditions.

L. The TAB Agency shall check all the systems operating together to ensure that the air conditioning spaces are under an overall positive pressure.

2.4 FIELD QUALITY CONTROL

A. Verify recorded data represents actually measured or observed conditions.

B. Permanently mark settings of valves, dampers, and other adjustment devices. Set and lock memory stops.

END OF SECTION

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SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : HVAC SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M2.2

SECTION 15061 – HANGERS AND SUPPORTS FOR MECH. PIPING AND EQUIPMENT

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Pipe hangers and supports, Hanger rods, Inserts, Flashing, Equipment curbs, Sleeves, Mechanical sleeve seals, Formed steel channel, Firestopping relating to HVAC work, Firestopping accessories, Equipment bases and supports.

1.2 REFERENCES

A. American Society of Mechanical Engineers:
   1. ASME B31.1 – Power Piping.
   2. ASME B31.5 – Refrigeration Piping.
   3. ASME B31.9 – Building Services Piping.

B. ASTM International:
   1. ASTM E119 – Standard Test Methods for Fire Tests of Building Construction and Materials.
   2. ASTM E814 – Standard Test Method for Fire Tests of Through Penetration Fire Stops.
   3. ASTM F708 – Standard Practice for Design and Installation of Rigid Pipe Hangers.
   4. ASTM E1966 – Standard Test Method for Fire-Resistive Joint Systems.

C. American Welding Society:
   1. AWS D1.1 – Structural Welding Code – Steel.

D. FM Global:
   1. FM – Approval Guide, A Guide to Equipment, Materials & Services Approved By Factory Mutual Research For Property Conservation.

E. Manufacturers Standardization Society of the Valve and Fittings Industry:
   1. MSS SP 58 – Pipe Hangers and Supports – Materials, Design and Manufacturer.
   2. MSS SP 69 – Pipe Hangers and Supports – Selection and Application.
   3. MSS SP 89 – Pipe Hangers and Supports – Fabrication and Installation Practices.

F. Underwriters Laboratories Inc.:
   1. UL 263 – Fire Tests of Building Construction and Materials.
   2. UL 723 – Tests for Surface Burning Characteristics of Building Materials.
   3. UL 1479 – Fire Tests of Through-Penetration Firestops.
   4. UL 2079 – Tests for Fire Resistance of Building Joint Systems.
   5. UL – Fire Resistance Directory.

G. Intertek Testing Services (Warnock Hersey Listed):
   1. WH – Certification Listings.

1.3 DEFINITIONS

A. Firestopping (Through-Penetration Protection System): Sealing or stuffing material or assembly placed in spaces between and penetrations through building materials to arrest movement of fire, smoke, heat, and hot gases through fire rated construction.

1.4 SYSTEM DESCRIPTION

A. Firestopping Materials: ASTM E119, ASTM E814, UL 263, UL 1479 to achieve fire ratings as noted on architectural drawings for adjacent construction, but not less than 1 hour fire rating.

B. Firestop interruptions to fire rated assemblies, materials, and components.

1.5 PERFORMANCE REQUIREMENTS

A. Firestopping: Conform to applicable code and UL listings for fire resistance ratings and surface burning characteristics.

1.6 QUALITY ASSURANCE

A. Through Penetration Firestopping of Fire Rated Assemblies: UL 1479 or ASTM E814 with 0.10 inch water gage minimum positive pressure differential to achieve fire F-Ratings and temperature T-Ratings as indicated on Drawings, but not less than 1-hour.
   1. Wall Penetrations: Fire F-Ratings as indicated on Drawings, but not less than 1-hour.
   2. Floor and Roof Penetrations: Fire F-Ratings and temperature T-Ratings as indicated on Drawings, but not less than 1-hour.
      a. Floor Penetrations Within Wall Cavities: T-Rating is not required.

B. Through Penetration Firestopping of Non-Fire Rated Floor and Roof Assemblies: Materials to resist free passage of flame and products of combustion.
   1. Noncombustible Penetrating Items: Noncombustible materials for penetrating items connecting maximum of three stories.
   2. Penetrating Items: Materials approved by authorities having jurisdiction for penetrating items connecting maximum of two stories.

C. Fire Resistant Joints in Fire Rated Floor, Roof, and Wall Assemblies: ASTM E1966 or UL 2079 to achieve fire resistant rating as indicated on Drawings for assembly in which joint is installed.

D. Fire Resistant Joints Between Floor Slabs and Exterior Walls: ASTM E119 with 0.10 inch water gage minimum positive pressure differential to achieve fire resistant rating as indicated on Drawings for floor assembly.

E. Surface Burning Characteristics: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.

F. Perform Work in accordance with AWS D1.1 for welding hanger and support attachments to building structure.

1.7 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

PART 2 PRODUCTS

2.1 PIPE HANGERS AND SUPPORTS

A. Acceptable Manufacturers: Carpenter & Paterson, Creative Systems, Flex-Weld, Globe Pipe Hanger Products, Michigan Hanger, Superior Valve Co.

B. Piping – Inside Building:
   1. Conform to ASME B31.9, ASTM F708, NFPA 54.
   2. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron or carbon steel, adjustable swivel, split ring.
   3. Hangers for Pipe Sizes 2 inches and Larger: Carbon steel, adjustable, clevis.
   4. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
   5. Wall Support for Pipe Sizes 3 inches and Smaller: Cast iron hooks.
   6. Wall Support for Pipe Sizes 4 inches and Larger: Welded steel bracket and wrought steel clamp.
   7. Vertical Support: Steel riser clamp.
   8. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
   9. Copper Pipe Support: Copper-plated, carbon steel ring.

2.2 ACCESSORIES

A. Hanger Rods: Mild steel threaded both ends, threaded on one end, or continuous threaded.

2.3 INSERTS

A. Inserts: Malleable iron case of galvanized steel shell and expander plug for threaded connection with lateral adjustment, top slot for reinforcing rods, lugs for attaching to forms; size inserts to suit threaded hanger rods.

2.4 FLASHING

A. Metal Flashing: 26 gage thick galvanized steel.

B. Metal Counterflashing: 22 gage thick galvanized steel.

C. Lead Flashing:
   1. Waterproofing: 5 lb./sq. ft sheet lead.
   2. Soundproofing: 1 lb./sq. ft sheet lead.

D. Flexible Flashing: 47 mil thick sheet; compatible with roofing.

E. Caps: Steel, 22 gage minimum; 16 gage at fire resistant elements.

2.5 EQUIPMENT CURBS

A. Fabrication: Welded 18 gage galvanized steel shell and base, mitered 3 inch cant, variable step to match roof insulation, 1-1/2 inch thick insulation, factory installed wood nailer.

2.6 SLEEVES

A. Sleeves for Pipes Through Non-fire Rated Floors: 18 gage thick galvanized steel.

B. Sleeves for Pipes Through Non-fire Rated Beams, Walls, Footings, and Potentially Wet Floors: Steel pipe or 18 gage thick galvanized steel.

C. Sleeves for Round Ductwork: Galvanized steel.

D. Sleeves for Rectangular Ductwork: Galvanized steel or wood.

E. Sealant: Acrylic.

2.7 MECHANICAL SLEEVE SEALS

A. Product Description: Modular mechanical type, consisting of interlocking synthetic rubber links shaped to continuously fill annular space between object and sleeve, connected with bolts and pressure plates causing rubber sealing elements to expand when tightened, providing watertight seal and electrical insulation.

2.8 FORMED STEEL CHANNEL

A. Acceptable Manufacturers: Allied Tube & Conduit Corp., B-Line Systems, Midland Ross Corporation, Unistrut Corp.

B. Product Description: Galvanized 12 gage thick steel. With holes 1-1/2 inches on center.

2.9 FIRESTOPPING

A. Acceptable Manufacturers: Dow Corning Corp., Fire Trak Corp., Hilti Corp., International Protective Coating Corp., 3M Fire Protection Products, Specified Technology Inc.

B. Product Description: Different types of products by multiple manufacturers are acceptable as required to meet specified system description and performance requirements; provide only one type for each similar application.
   1. Silicone Firestopping Elastomeric Firestopping: Single or Multiple component silicone elastomeric compound and compatible silicone sealant.
   2. Foam Firestopping Compounds: Single or Multiple component foam compound.
   3. Formulated Firestopping Compound of Incombustible Fibers: Formulated compound mixed with incombustible non-asbestos fibers.
   4. Fiber Stuffing and Sealant Firestopping: Composite of mineral or ceramic fiber stuffing insulation with silicone elastomer for smoke stopping.
   5. Mechanical Firestopping Device with Fillers: Mechanical device with incombustible fillers and silicone elastomer, covered with sheet stainless steel jacket, joined with collars, penetration sealed with flanged stops.
   6. Intumescent Firestopping: Intumescent putty compound which expands on exposure to surface heat gain.
   7. Firestop Pillows: Formed mineral fiber pillows.

2.10 FIRESTOPPING ACCESSORIES

A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces and suitable for required fire ratings.

B. Dam Material: Permanent Mineral fiberboard or fiber matting, sheet metal, plywood or alumina silicate fire board.

C. Installation Accessories: Provide clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.

D. General:
   1. Furnish UL listed products.
   2. Select products with rating not less than rating of wall or floor being penetrated.

E. Non-Rated Surfaces:
   1. Stamped steel, chrome plated, hinged, split ring escutcheons or floor plates or ceiling plates for covering openings in occupied areas where piping is exposed.
   2. For exterior wall openings below grade, furnish mechanical sealing device to continuously fill annular space between piping and cored opening or water-stop type wall sleeve.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify openings are ready to receive sleeves.

C. Verify openings are ready to receive firestopping.

3.2 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter affecting bond of firestopping material.

B. Remove incompatible materials affecting bond.

C. Install damming materials to arrest liquid material leakage.

D. Do not drill or cut structural members.

3.3 INSTALLATION – INSERTS

A. Install inserts for placement in concrete forms.

B. Install inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.

C. Provide hooked rod to concrete reinforcement section for inserts carrying pipe 4 inches and larger.

D. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.

E. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut recessed into and grouted flush with slab.

3.4 INSTALLATION – PIPE HANGERS AND SUPPORTS

A. Install in accordance with ASME B31.1, ASME B31.5, ASME 31.9, ASTM F708, NFPA 54.

B. Support horizontal piping as scheduled.

C. Install hangers with minimum 1/2 inch space between finished covering and adjacent work.

D. Place hangers within 12 inches of each horizontal elbow.

E. Use hangers with 1-1/2 inch minimum vertical adjustment.

F. Support vertical piping at every floor.

G. Where piping is installed in parallel and at same elevation, provide multiple pipe or trapeze hangers.

H. Support riser piping independently of connected horizontal piping.

I. Provide copper plated hangers and supports for copper piping.

J. Design hangers for pipe movement without disengagement of supported pipe.

K. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered exposed.

L. Provide clearance in hangers and from structure and other equipment for installation of insulation.

3.5 INSTALLATION – EQUIPMENT BASES AND SUPPORTS

A. Provide housekeeping pads of concrete, minimum 3-1/2 inches thick and extending 6 inches beyond supported equipment.

B. Using templates furnished with equipment, install anchor bolts, and accessories for mounting and anchoring equipment.

C. Construct supports of steel members, formed steel channel, steel pipe and fittings. Brace and fasten with flanges bolted to structure.

3.6 INSTALLATION – FLASHING

A. Provide flexible flashing and metal counter-flashing where piping and ductwork penetrate weather or waterproofed walls, floors, and roofs.

B. Provide acoustical lead flashing around ducts and pipes penetrating equipment rooms for sound control.

C. Provide curbs for roof installations 14 inches minimum high above roofing surface. Flash and counter-flash with sheet metal; seal watertight. Attach counter-flashing to equipment and lap base flashing on roof curbs. Flatten and solder joints.

D. Adjust storm collars tight to pipe with bolts; caulk around top edge. Use storm collars above roof jacks. Screw vertical flange section to face of curb.

3.7 INSTALLATION – SLEEVES

A. Exterior watertight entries: Seal with mechanical sleeve seals.

B. Set sleeves in position in forms. Provide reinforcing around sleeves.

C. Size sleeves large enough to allow for movement due to expansion and contraction. Provide for continuous insulation wrapping.

D. Extend sleeves through floors 1 inch above finished floor level. Caulk sleeves.

E. Where piping or ductwork penetrates floor, ceiling, or wall, close off space between pipe or duct and adjacent work with stuffing insulation and caulk airtight. Provide close fitting metal collar or escutcheon covers at both sides of penetration.

F. Install chrome plated steel escutcheons at finished surfaces.

3.8 INSTALLATION – FIRESTOPPING

A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, and other items, requiring firestopping.

B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings.

C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating, to uniform density and texture.

D. Fire Rated Surface:
   1. Seal opening at floor, wall, partition, ceiling, and roof as follows:
      a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element.
      b. Size sleeve allowing minimum of 1 inch void between sleeve and building element.
      c. Pack void with backing material.
      d. Seal ends of sleeve with UL listed fire resistive silicone compound to meet fire rating of structure penetrated.
   2. Where cable tray, conduit, wireway, and piping penetrates fire rated surface, install firestopping product in accordance with manufacturer's instructions.

E. Non-Rated Surfaces:
   1. Seal opening through non-fire rated wall, partition floor, ceiling, and roof opening as follows:
      a. Install sleeve through opening and extending beyond minimum of 1 inch on both sides of building element.
      b. Size sleeve allowing minimum of 1 inch void between sleeve and building element.
      c. Install type of firestopping material recommended by manufacturer.
   2. Install escutcheons, floor plates, or ceiling plates where conduit or piping, penetrates non-fire rated surfaces in occupied spaces. Occupied spaces include rooms with finished ceilings and where penetration occurs below finished ceiling.
   3. Exterior wall openings below grade: Assemble rubber links of mechanical sealing device to size of piping and tighten in place, in accordance with manufacturer's instructions.
   4. Interior partitions: Seal pipe penetrations at locations where partitions run to structure. Apply sealant to both sides of penetration to completely fill annular space between sleeve and conduit.

END OF SECTION

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ISSUE DATE
11/14/16

SHEET TITLE : HVAC SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M2.3

SECTION 15730 – SPLIT SYSTEM HEAT PUMPS

PART 1 GENERAL

1.1 GENERAL

A. Section 15010 applies.

1.2 BASIS OF DESIGN

A. Acceptable manufacturers for products specified under this section are listed below.
   1. Split System Heat Pumps: Carrier, Trane, American Standard

PART 2 PRODUCTS

2.1 DUCTED SPLIT SYSTEM HEAT PUMPS

A. Equipment is scheduled on the drawings.

B. Configuration: as inidicated on the drawings.

C. General: Factory assembled and tested air cooled condensing units and heat pumps, consisting of casing, compressors, condensers, coils, condenser fans and motors, and unit controls.

D. Unit Casings: Exposed casing surfaces constructed of galvanized steel, bonderized, and coated with manufacturer's powder coat paint. Designed for outdoor installation and complete with weather protection for components and controls, and complete with removable panels for required access to compressors, controls, condenser fans, motors, and drives.

E. Compressor: Single and dual refrigeration circuits (per plans) with compressors, resiliently mounted, with positive lubrication, and internal motor overload protection.

F. Condenser Coil: Constructed of copper tubing mechanically bonded to aluminum fins, factory leak and pressure tested.

G. Furnish operating and safety controls including high and low pressure cutouts. Control transformer. Furnish magnetic contactors for compressor and condenser fan motors.

H. Condenser Fans and Drives: Direct drive propeller fans statically and dynamically balanced. Wired to operate with compressor. Permanently lubricated ball bearing type motors with built–in thermal overload protection. Furnish high efficiency fan motors.

I. Condensing Unit Accessories:
   1. Controls to provide low ambient cooling, time delay relay, anti–short cycle timer, vibration isolators on all equipment supported by structure or upper floor slabs, condenser coil guard, suction and discharge pressure gauge connections.

J. Refrigeration specialties: Furnish the following for each circuit:
   1. Charge of compressor oil, Holding charge of refrigerant, Replaceable core type filter drier, liquid line sight glass and moisture indicator, shut–off valves on suction and liquid piping, liquid line solenoid valve, charging valve, oil level sight glass, crankcase heater, hot gas muffler, pressure relief device, P–traps (as needed).

K. Refrigerant: Furnish full charge of refrigerant R–410A.

L. Air Handling Unit Cabinet:
   1. Panels: Constructed of galvanized steel with baked enamel finish. Access Panels: Located on both sides of unit. Furnish with duct collars on inlets and outlets.
   2. Insulation: Factory applied to each surface to insulate entire cabinet. One inch thick aluminum foil faced glass fiber with edges protected from erosion.

E. Evaporator Fan: Forward curved centrifugal type, resiliently mounted with adjustable belt drive (for belt drive units) and high efficiency motor. Motor permanently lubricated with built–in thermal overload protection.

F. Evaporator Coil: Constructed of copper tubes expanded onto aluminum fins. Factory leak tested under water. Removable, PVC construction, double–sloped drain pan with piping connections on both sides.

G. Refrigeration System: Single and dual refrigeration circuits, as per plans, controlled by factory installed thermal expansion valve.

H. Electric Heating Coil: Helical nickel–chrome resistance wire coil heating elements with refractory ceramic support bushings easily accessible with automatic reset thermal cut–out, built–in contactors, galvanized steel frame, manual reset thermal cut–out, air flow proving device, load fuses.

I. Air Filters: 1 inch thick glass fiber disposable media in metal frames. 25 to 30 percent efficiency based on ASHRAE 52.1.

J. Air Handling Unit Accessories:
   1. Discharge Plenum: with construction and finish matching unit casing.
   2. Mounting Sub–base with construction and finish matching unit casing.
   3. Vibration Isolators: Neoprene–in–shear type.

2.2 MINI–SPLIT SYSTEM HEAT PUMPS

A. Equipment is scheduled on the drawings.

B. Air cooled split system outdoor section shall be suitable for ground or rooftop installation. Unit shall consist of a hermitic reciprocating scroll or rotary compressor, an air cooled coil, propeller type blow thru outdoor fans, reversing valve, accumulator, refrigerant charge, heating mode metering device, and control box. Unit shall discharge air horizontally. Unit construction shall comply with ANSI/ASHRAE 15 and NEC. Units shall be constructed in accordance with U.L standards. Air cooled condenser coils shall be leak tested at 350 psig air pressure. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a baked enamel finish. Outdoor fans shall be direct drive propeller type, and shall discharge air horizontally. Outdoor fan motors shall be totally enclosed, single phase motors with Class B insulation and permanently lubricated sleeve bearings, and shall be protected by internal thermal overload protection. Fan blades shall be corrosion–resistant and shall be statically and dynamically balanced. Outdoor fan openings shall be equipped with PVC coated protection grille over fan and coil. Compressor shall be equipped with oil system, operating oil charge, and motor. Internal overloads shall protect the compressor from over–temperature and over–current. Scroll compressors shall also have high discharge gas temperature protection if required. Reciprocating compressors shall be equipped with crankcase heaters. Compressor assembly shall be installed on rubber vibration isolators and shall have internal spring isolation. Coil shall be constructed of aluminum fins mechanically bonded to internally enhanced, seamless copper tubes. Refrigerant circuit components shall include brass external liquid line service valve with service gage port connections, suction line service valve with service gage connection port service gage port connections on compressor suction and discharge lines with Schrader type fittings with brass caps, accumulator, bi–fold filter drier, and pressure relief.

C. Outdoor unit operating controls and safeties shall be factory selected, assembled, and tested. The minimum control functions shall include time delay restart, automatic restart on power failure, safety lockout, a time delay control sequence, high pressure and liquid line low pressure switches, and start capacitor and relay on single phase units without scroll compressors. Safeties shall include: System diagnostics, compressor motor current and temperature overload protection, high pressure relief and outdoor fan failure protection. Unit electrical power shall be single point connection. Unit shall have high and low voltage terminal block connections. Liquid solenoid valve shall be included on heat pumps where required for excessive heights where recommended by manufacturer.

D. Indoor direct expansion fan coil units shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral wall mounting bracket, mounting hardware, and thermistor interconnection cable. The unit shall be matched with outdoor unit as scheduled on drawings. Cabinet discharge and inlet grilles shall be attractively styled, high impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fans shall be tangential direct drive blower type with air intake and discharge. Vertical and horizontal air sweep shall be provided. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion. A drip pan under the coil shall have a drain connection. Condensate pan shall have internal trap and auxiliary drip pan under coil header. The units shall use Accurater piston refrigerant metering device in the indoor unit and outdoor unit liquid line service valve. Unit shall have filter track with factory supplied cleanable filters. Motors shall be open drip proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 3–speed. Controls shall consist of a microprocessor based control system which shall control space temperature, determine optimum fan speed, and run self diagnostics. Controls shall include a minimum of the following features: an automatic restart, timer function, temperature sensing controls, high discharge temperature shutdown, fan speed control, time delay to prevent compressor restart in less than 3 minutes, automatic heating to cooling changeover and demand defrost. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. All units shall have rotatable refrigerant lines for penetration through the wall using flare connections. All units shall have flare connections and line–hide devices. Units shall be provided with a condensate pump as scheduled on the drawings.

E. Control or safety devices furnished for field installation shall be installed and wired under Section 15900.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify roof curbs are installed and dimensions are as shown on shop drawings.

3.2 INSTALLATION

A. Install Work in accordance with state and local Building Inspection Department's standards.

B. Do not place units on roof before roof curbs or mounting rails are installed.

C. Install roof mounted units on roof curb or mounting rails providing watertight enclosure to protect ductwork and utility services. Install roof curb level.

D. Install remote panels and control wiring between remote control locations and unit. Install in accordance with Section 15900.

E. Install components furnished loose for field mounting.

F. Install electrical devices downstream of contactors furnished loose for field mounting. Division 16 contractor is responsible for providing remote disconnects for all mechanical equipment under this contract. Division 16 contractor is responsible for providing and installing power wiring to terminals on all mechanical equipment.

G. Install flexible connections at supply and return ductwork connections.

H. Install condensate drain piping from drain pan to nearest floor drain or to condensate drainage system provided.

I. Furnish units fully charged with refrigerant and filled with oil.

J. Furnish initial start–up and shutdown during first year of operation, including routine servicing and checkout.

END OF SECTION

SECTION 15750 – MAJOR HVAC EQUIPMENT

PART 1 GENERAL

1.1 GENERAL

A. Section 15010 applies.

1.2 BASIS OF DESIGN

A. Acceptable manufacturers for products specified under this section are listed below.
   1. Exhaust Fans: Greenheck, Cook, Penbarry

PART 2 PRODUCTS

2.1 EXHAUST FANS (EF)

A. General
   1. Fans are scheduled on the drawings.
   2. All fans shall bear the AMCA Certified Performance Rating seal and UL label. Sone ratings shall be in accordance with AMCA Bulletin 300. Fans shall have published ratings certified by AMCA Standard 210 and Class established by AMCA 2408–69. Fan BHP and RPM shall be selected to produce specified capacity when installed in system with accessories as indicated. Fan wheels shall be statically and dynamically balanced.
   3. Belt drive fan motors shall have bases which permit adjustment of belt tension, belt guards with tachometer hole for fan shaft, and variable pitch diameter sheaves.
   4. Bearings for fan shafts, other than propeller type, shall have an average service life of 100,000 hours. Bearings shall be factory lubricated and shall have grease fittings for lubrication as recommended by bearing manufacturer. Grease lines shall extended to outside of casing where fittings are inaccessible during fan run time.
   5. Solid state speed controllers for direct drive fans shall be provided and wired under Division 15 for initial balancing of fan air quantity.
   6. Motors shall be provided as specified in Section 15010 and shall be readily accessible. Motors 1 hp and larger shall be premium efficiency type.

C. Ceiling/Cabinet Type
   1. Housing shall be reinforced phosphatized steel. Wheels shall be true centrifugal, forward curved in design, and shall be statically and dynamically balanced.
   2. Where grilles are required, they shall be aluminum with white baked enamel symmetrically finished appearance. Interior of housings shall be lined with dark acoustical insulation permanently attached in place. Interior of installed unit shall not be visible when grille is installed.
   3. Motors shall be shaded pole type with sleeve bearings supported by one piece die formed steel suspension brackets with rubber isolation dampers.
   4. Terminal box shall be mounted in the housing with receptacle, plug and cord inside of the cabinet. All motors shall be suitably grounded. Motor and fan assembly shall be removable from installed ceiling ventilator.
   5. Where duct flanges are required on one or both ends of the fan, they shall be pre–assembled to housings.
   6. Backdraft dampers shall be of integral design with aluminum damper on steel spring and foam rubber seal to eliminate chatter.
   7. A speed controller on direct drive fans shall be shall be mounted at the fan and factory wired or field wired under Division 15 between the fan and fan energizer.

PART 3 EXECUTION

3.1 INSTALLATION

A. Field coordinate power requirements with Division 16 contractor before ordering any equipment.

B. Do not place equipment on roof before roof curbs are installed. All roof–mounted equipment shall be mounted on curbs. Install roof mounted units on roof curb providing watertight enclosure to protect ductwork and utility services. Install roof curb and equipment level.

C. Install components furnished loose for field mounting.

D. Install electrical devices downstream of contactors furnished loose for field mounting. Division 16 contractor is responsible for providing remote disconnects for all mechanical equipment under this contract. Division 16 contractor is responsible for providing and installing power wiring to terminals on all mechanical equipment.

E. Furnish initial start–up and shutdown during first year of operation, including routine servicing and checkout.

END OF SECTION

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11/14/2016

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REVISION #	DATE / COMMENTS
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SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : HVAC SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M2.4

GENERAL PLUMBING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH GEORGIA AMENDMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. PLUMBING FIXTURES SHALL BE "HIGH EFFICIENCY" WITH WATER SENSE COMPLIANT FLOW OR FLUSH RATES AS REQUIRED BY GEORGIA AMENDMENTS TO THE IPC.
3. EXPOSED FIXTURES: CHROME PLATED BRASS AND COPPER TUBING WITH THREADED PLATED BRASS FITTINGS.
4. JOIN PIPES OF DISSIMILAR METALS WITH DIELECTRIC UNIONS OR SIMILAR ISOLATING DEVICES, DO NOT DIRECTLY CONNECT TO PIPES OF DISSIMILAR METALS.
5. ROUTE PIPING PARALLEL TO BUILDING STRUCTURE AND MAINTAIN GRADIENT.
6. INSTALL PIPING TO MAINTAIN HEADROOM. GROUP PIPING TO CONSERVE SPACE. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.
7. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
8. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
9. SLEEVE PIPE PASSING THROUGH PARTITIONS, WALLS AND FLOORS.
10. INSTALL IDENTIFICATION ON PIPING SYSTEMS OR INSULATION COVERINGS INCLUDING UNDERGROUND PIPING PER PIPE LABELING DETAIL. LABELS SHALL INCLUDE NAME OF FLUID INSIDE PIPE ALONG WITH DIRECTIONAL FLOW ARROWS. ALL GAS PIPING SHALL BE PAINTED YELLOW WITH PIPE MARKERS APPLIED AFTER PAINTING. NON-STEEL GAS PIPING SHALL HAVE LABELS APPLIED NOT EXCEEDING 5 FEET APART.
11. PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.
12. CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS REQUIRED TO ACCOMPLISH THE WORK SHOWN.
13. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PIPE SLOPES SHOULD BE VERIFIED TO ENSURE PROPER ELEVATIONS ARE OBTAINED AT CONNECTION POINTS.
14. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
15. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PERMITS, AND METERS.
16. ALL SANITARY DRAINAGE PIPES 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, AND ALL SANITARY DRAINAGE PIPES 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
17. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
18. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" OF ACCESS PANELS, CELING TILES, OR OTHER POINTS OF ACCESS.
19. PLUMBING AND FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT ROOM.
20. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
21. TOPS OF ALL FLOOR DRAINS AND FLOOR CLEANOUTS SHALL BE LEVEL WITH FINISHED FLOOR AT INSTALLATION LOCATION TO PREVENT TRIP HAZARDS – FLOORS SHALL SLOPE TO FLOOR DRAINS.
22. PRIME ALL FLOOR DRAIN AND INDIRECT DRAIN TRAPS WITH WATER BASED TRAP PRIMERS AS SHOWN ON PLANS. PRO-VENT TRAP GUARDS MAY BE USED IN LIEU OF WATER BASED TRAP PRIMERS WHERE THE AUTHORITY HAVING JURISDICTION ALLOWS.
23. ALL VENT AND FLUE OUTLETS SHALL BE 10'-0" MINIMUM FROM ANY FRESH AIR INTAKE.
24. DURING THE PROGRESS OF THE PROJECT, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS, AND HOOK-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
25. UPON COMPLETION OF THIS JOB, CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY THESE PLANS.
26. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. PLUMBING CONTRACTOR SHALL WIRE AND START ALL ELECTRICAL PLUMBING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING, CONDUIT, BREAKERS, AND OTHER APPROPRIATE ELECTRICAL EQUIPMENT.
27. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
28. ALL PIPE PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SHRINK, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
29. ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
30. CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCTS AND MATERIALS FOR A COMPLETE PLUMBING SYSTEM.
31. EQUIPMENT AND PIPING LOCATIONS AND ROUTING SHOWN ARE DIAGRAMMATIC AND INTENDED TO SHOW THE INTENT OF THE DESIGN. COORDINATE FINAL LOCATIONS AND PIPE ROUTING WITH ARCHITECTURAL PLANS AND FIELD CONDITIONS.

PIPING LABEL COLOR GUIDE

PIPING SYSTEM FLUID	LABEL COLOR	TEXT COLOR
NATURAL GAS	SAFETY YELLOW	WHITE
PROPANE GAS	SAFETY YELLOW	WHITE
COMPRESSED AIR	SAFETY BLUE	WHITE
CHILLED WATER	SAFETY GREEN	WHITE
HEATING HOT WATER	SAFETY GREEN	WHITE
STEAM	SAFETY GREEN	WHITE
DOMESTIC COLD WATER	SAFETY GREEN	WHITE
DOMESTIC HOT WATER	SAFETY GREEN	WHITE
FIRE PROTECTION FLUIDS	SAFETY RED	WHITE

SIZE OF LEGEND LETTERS

PIPE OR PIPE COVERING OUTER DIAM. (IN.)	LENGTH OF COLOR FIELD (IN.)	SIZE OF LETTERS (IN.)
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
8" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

NOTES:
1. IF AN EXISTING PIPE LABELING/MARKING SCHEME IS USED IN THE FACILITY, MATCH EXISTING SCHEME IN LIEU OF THESE DIRECTIONS.
2. LABEL TEXT SHOULD MATCH FLUIDS IN TABLE, AND SHOULD INCLUDE FLOW ARROWS INDICATING DIRECTION OF FLUID FLOW.
3. IF FLUIDS MAY FLOW IN TWO DIRECTIONS, ARROWS SHOULD INDICATE SUCH.
4. APPLY LABELS SO THAT THEY ARE EASILY READABLE BY OCCUPANTS OR EMPLOYEES. FOR EASE OF READING, LABELS SHOULD BE APPLIED ON BOTTOM OF PIPES THAT ARE ABOVE OCCUPANT LEVEL, ON TOP OF PIPES THAT ARE BELOW OCCUPANT LEVEL, AND ON SIDE OF PIPES THAT ARE AT OR NEAR OCCUPANT LEVEL.
5. FOR PIPES SMALLER THAN 3/4", USE PERMANENTLY ENGRAVED LABELS AFFIXED TO PIPES.
6. APPLY LABELS NEAR VALVES, BRANCHES, WHERE A CHANGE IN DIRECTION OCCURS, AT ENTRY AND RE-ENTRY POINTS THRU WALLS, FLOORS, ROOFS, AND ON STRAIGHT SEGMENTS WITH SPACING BETWEEN LABELS THAT ALLOWS FOR EASY INDENTIFICATION.
7. PIPING SYSTEMS CONVEYING GASEOUS CONTENTS SHALL HAVE SYSTEM DESIGN PRESSURE INDICATED ON THE LABEL IN ADDITION TO SYSTEM FLUID AND DIRECTIONAL ARROWS.
8. NATURAL AND PROPANE GAS LABELS ON NON-STEEL PIPING SHALL BE APPLIED AT INTERVALS NOTE EXCEEDING 5 FEET.
9. THESE LABELING GUIDELINES DO NOT APPLY TO MEDICAL GAS AND VACUUM SYSTEMS. FOR THESE TYPES OF SYSTEMS, REFER TO THE LOCAL CODE OFFICIALS' LATEST ACCEPTED VERSION OF NFPA 99.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	PIPING CONNECTION SIZES S.S.	V.	C.W.	H.W.	SPECIFICATION
LAV-1	COUNTERTOP LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	• UNDERMOUNT STYLE SINK WITH OVERFLOW, ADA, WHITE VITREOUS CHINA, INCLUDE UNDERMOUNT CLAMPS AND ALL REQ'D HARDWARE FOR COMPLETE INSTALLATION. 19-7/8" L-R, 15-5/16" F-B, 7-1/2" DEEP. • FIXUTRE: KOHLER K-2355 • FAUCET: KOHLER K-T11839, POLISHED CHROME • MGUIRE 8912 P-TRAP. • MCGUIRE 151 BRASS STRAINER. • MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES
LAV-2	WALL MOUNT LAVATORY, PUBLIC (0.5 GPM)	2"	2"	1/2"	1/2"	• KOHLER K-2035, ADA COMPLIANT, WHITE VITREOUS CHINA WALL MOUNT SINK, REAR CENTER DRAIN WITH OVERFLOW, 2 HOLE DRILLING ON 4" CENTERS, 21-1/4" L-R X 18-1/8" F-B X 7-1/4" DEEP, INCLUDE WALL CARRIER. • KOHLER 8998 P-TRAP • DELTA 501 FAUCET, POLISHED CHROME. • MCGUIRE 151 BRASS STRAINER. • MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES
LAV-3	WALL MOUNT LAVATORY, KITCHEN (1.5 GPM)	2"	2"	1/2"	1/2"	• WALL MOUNT KITCHEN HAND WASH LAVATORY, 16 GA. 304 STAINLESS STEEL WITH FACTORY INSTALLED SIDE SPLASHES, WALL BRACKETS, BASKET DRAIN, AND ALL REQ'D HARDWARE FOR COMPLETE INSTALLATION. 14-3/4" L-R, 18-7/8" F-B, 12-3/4" DEEP • FIXTURE: EAGLE HSA-10-FTWS-LRS • FAUCET: INCLUDED BY EAGLE • P-TRAP: INCLUDED BY EAGLE. • MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES
S-2	BAR SINK, KITCHEN (1.5 GPM)	2"	2"	1/2"	1/2"	• UNDERMOUNT STYLE BAR SINK, 16 GA. STAINLESS STEEL, C/W BOWL RACK, STRAINER, AND ALL REQ'D HARDWARE FOR COMPLETE INSTALLATION. 15" F-B, 15" L-R, 9-5/16" DEEP. • FIXTURE: KOHLER K-5287 • FAUCET: KOHLER K-7505, POLISHED CHROME • MGUIRE 8912 P-TRAP. • MCGUIRE 151 BRASS STRAINER. • MCGUIRE BV-2165 QUARTER TURN BALL VALVE STOPS AND SUPPLIES
WC-1	WATER CLOSET, HCDP.	3"		1"		• HANDICAPPED WATER CLOSET SHALL BE FLOOR MOUNTED FLUSH VALVE TYPE WITH ELONGATED BOWL AND 1.28 GPF AUTOMATIC FLUSH VALVE. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION. • FIXTURE: KOHLER K-4405 • SEAT: KOHLER K-4731-C • FLUSH VALVE: KOHLER K-13517
WC-2	WATER CLOSET	3"		1"		• STANDARD WATER CLOSET SHALL BE FLOOR MOUNTED FLUSH VALVE TYPE WITH ELONGATED BOWL AND 1.28 GPF AUTOMATIC FLUSH VALVE. SEAT SHALL BE COMMERCIAL TYPE WITH OPEN FRONT. INCLUDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION. • FIXTURE: KOHLER K-4405 • SEAT: KOHLER K-4731-C • FLUSH VALVE: KOHLER K-13517
S-1	TRIPLE POT SINK, KITCHEN (1.5 GPM)	2"	2"	1/2"	1/2"	• STAINLESS STEEL FREE STANDING TRIPLE POT/DISH SINK, REAR SPLASH GUARD, NO SIDE BOARDS. TIG WELDED, 16" L-R, 20" F-B BOWLS, 62" OVERALL LENGTH. FAUCET HOLES ON 8" CENTERS. INCLUDE ALL PARTS FOR A COMPLETE INSTALLATION. • FIXTURE: ADVANCE TABCO T9-3-54 • FAUCET: T&S B-0133-ADF12-B FAUCET PRE-RINSE UNIT
MOP	JANITOR'S MOP SINK	2"	2"	1/2"	1/2"	• SERVICE/JANITOR'S SINK SHALL BE BOTTOM-DRAINING, FLOOR-MOUNTED TYPE SINK COMPLETE WITH FAUCET, AT LEAST FIVE FEET OF ½ INCH DIAMETER PLAIN END REINFORCED RUBBER HOSE, HOSE CLAMP. FAUCET SHALL BE TWO HANDLES, LOOSE KEY STOPS, THREADED SPOUT FOR HOSE CONNECTION AND VACUUM BREAKER. FURNISH WITH INTEGRAL RIM GUARD, STAINLESS STEEL SPLASH PANELS, AND SHALL INCLUDE ALL PARTS FOR COMPLETE INSTALLATION. • FIXTURE: STERN WILLIAMS CRS-2200 • FAUCET: CHICAGO 897-RCF
FCO OR COTG	FLOOR/GRADE CLEANOUT	3",4"				• WATTS CO-200-A • EPOXY COATED CAST IRON FLOOR CLEANOUT WITH ADJUSTABLE NICKEL BRONZE TOP AND NO HUB OUTLET.
FD	FLOOR DRAIN	3"				• WATTS FD-100-A • EPOXY COATED CAST IRON DRAIN W/ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEP HOLES, ADJUSTABLE ROUND NICKEL BRONZE STRAINER AND NO HUB OUTLET. • EXTRA HEAVY DUTY TOP/STRAINER WHEN USED OUTSIDE BUILDING. • INCLUDE TRAP PRIMER TAPPING AS REQUIRED.
FS	FLOOR SINK	3"				• WATTS FS-710 • 8" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET. • INCLUDE TRAP PRIMER TAPPING AS REQUIRED.
WH	WALL HYDRANT, FREEZE PROOF			1/2"		• WOODFORD MODEL 68 AUTO-DRAINING WITH COVER. • ASSE 1053 LISTED. • ASSE 1052 FIELD TESTABLE BACKFLOW PREVENTER. • HARDENED STAINLESS STEEL OPERATING STEM, 3/8" SOLID BRASS ROD WITH ONE PIECE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTION THAT REQUIRES NO SPECIAL TOOLS FOR REMOVAL. • ONE PIECE SOLID BRASS FLAT FACE PLATE FOR PERMANENT WALL SEAL. • LOOSE KEY AND WALL CLAMP TO BE FURNISHED WITH EACH HYDRANT.
DF/HDF		2"		1/2"		• ELKAY VRC8WSK, EZH2O VANDAL RESISTANT BOTTLE FILLER AND DRINKING FOUNTAIN/COOLER. UNIT SHALL DELIVER 50 DEG. F DRINKING WATER AT 90 DEG. F AMBIENT AND 80 DEG. F INLET WATER. • STAINLESS STEEL CONSTRUCTION WITH VANDAL RESISTANT PUSH BUTTON ACTIVATION AND VANDAL RESISTANT BUBBLER. • UNIT SHALL BE OF LEAD FREE CONSTRUCTION, CERTIFIED TO NSF/ANSI 61 AND 372, AND MEET ADA GUIDELINES. • UNIT SHALL BE CERTIFIED TO UL 399.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	ABBREVIATION
	ABOVE FINISHED CEILING	AFC
	ABOVE FINISHED FLOOR	AFF
	BELOW COUNTER	B/C
	BELOW FINISHED FLOOR	BFF
	BELOW GRADE	B/G
	DOMESTIC COLD WATER PIPING	CW
	DOMESTIC HOT WATER PIPING	HW
	VENT PIPE	V
	SANITARY SOIL	SS
	VENT THROUGH ROOF OR WALL	VTR OR VTW
	FLOOR CLEANOUT	FCO
	FLOOR DRAIN	FD
	FLOOR SINK (INDIRECT DRAIN)	FS
	WALL CLEANOUT	WCO
	CLEANOUT TO GRADE	COTG
	P-TRAP	
	PRESSURE REDUCING VALVE	PRV
	BACKFLOW PREVENTER	BP
	BALL VALVE	——
	UNION	——
	PRESSURE REDUCING VALVE	——
	BLIND FLANGE/CAP	——
	PIPING CONNECTION ON TOP	——
	PIPING CONNECTION ON BOTTOM	——
	ELBOW TURNED DOWN	——
	ELBOW TURNED UP	——
	THERMOMETER	——

DOMESTIC WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN	STORAGE CAPACITY (GAL.)	TOTAL INPUT (KW)	NO. OF ELEMENTS, KW EA.	THERMAL EFFIC. (%)	100 F RECOV. (GPH)	STORAGE TEMP. (DEG. F)	WATER CONN. (IN.)	SHIP WEIGHT (LBS.)	POWER	NOTES
EWH-1	RHEEM E50-9-G	50	9	3, 3 KW	90	37	140	1-1/2	270	SEE DIV. 16	1

NOTES
1. SPECIFICATION: BASIS OF DESIGN IS RHEEM, EQUIVALENT ALTERNATES BY A.O. SMITH, LOCHINVAR ARE ACCEPTABLE. HEATER SHALL HAVE UL SEAL OF CERTIFICATION AND BE FACTORY EQUIPPMED WITH AN CSA/ASME RATED TPR VALVE. TANKS SHALL HAVE A DOUBLE COATING OF HIGH TEMPERATURE PRCELAIN ENAMEL AND FURNISHED WITH MAGNESIUM ANODE RODS RIGIDLY SUPPORTED. HEATER SHALL MEET OR EXCEED THE STANDBY LOSS REQUIREMENTS OF ASHRAE. TANK SHALL HAVE A 150 PSI WORKING PRESSURE, AND SHALL BE COMPLETELY ASSEMBLED. HEATER SHALL BE APPROVED-LISTED AND CONSTRUCTED IN ACCORDANCE WITH UL SANITATION NSF5. HEATER SHALL BE EQUIPPED WITH STAINLESS SCREW-IN TYPE ELEMENTS, AND SHALL BE INSULATED WITH THICK POLYURETHANE FOAM INSULATION. HEATER SHALL BE CONSTRUCTED WITH A DIAGNOSTIC PANEL UTILIZING LEDS. EACH LED WILL CORRESPOND TO THE NUMBER AND LOCATION OF THE HEATING ELEMENTS AND MONITOR THEIR ON/OFF STATUS. HEATER SHALL BE PROVIDED WITH INTERNAL POWER CURCUIT FUSIN, CONTROL CIRCUIT FUSING, MAGNETIC CONTACTORS, 120 VOLT CONTROL CIRCUIT TRANSFORMER AND IMMERSION THERMOSTATS WITH MANUAL RESET HIGH LIMIT CONTROL. HEATER SHALL BE COVERED BY A 3-YEAR LIMITED WARRANTY AGAINST LEAKS.

DOMESTIC HOT WATER CIRCULATING PUMP SCHEDULE

TAG	BASIS OF DESIGN	FLOW (GPM)	HEAD (FT)	HORSE POWER	HW CONN. (IN.)	CW CONN. (IN.)	PWR	NOTES
CP-1	B&G NBF-25	2	12	0.35	3/4	3/4	115/1	1,2

NOTES
1. CONTROL: PUMP ENABLED/DISABLED BY PROGRAMMABLE 7-DAY A WEEK TIME CLOCK. DURING OCCUPIED BLDG. HOURS, PUMP SHALL NOT RUN UNTIL SUCH TIME THAT AQUASTAT CALLS FOR PUMP TO RUN. PUMP SHALL STOP RUNNING WHEN AQUASTAT IS SATISFIED.
2. SPECIFICATION: PUMP SHALL BE HORIZONTAL SYSTEM LUBRICATED TYPE, DESIGNED AND GUARANTEED FOR QUIET OPERATION. PUMP SHALL BE SUITABLE FOR 225 DEG. F AND 150 PSI WORKING PRESSURE, AND SHALL HAVE A CERAMIC SHAFT SUPPORTED BY CARBON BEARINGS LUBRICATED BY THE CIRCULATING FLUID. PUMP SHALL HAVE LEAD FREE BRONZE BODY. MOTOR STATOR SHALL BE ISOLATED FROM THE CIRCULATING FLUID BY USE OF A STAINLESS STEEL CAN, AND ROTOR SHALL BE SHEATHED IN STAINLESS STEEL. MOTORS SHALL BE NON- OVERLOADING AT ANY POINT ON THE PUMP CURVE. INCLUDE OPTIONAL CHECK VALVE WHERE AVAILABLE.

EXPANSION TANK SCHEDULE

TAG	BASIS OF DESIGN	STORAGE VOLUME (GALS.)	MAX ACCEPT. (GALS.)	SYSTEM CONN. (IN.)	WEIGHT (LBS.)	TANK TYPE	NOTES
ET-1	B & G PTA-5	2.1	0.9	3/4	21	VERTICAL ROUND, FLOOR OR PIPE MOUNT	1

NOTES
1. SPECIFICATION: EXPANSION TANK SHALL BE VERTICAL FLOOR OR PIPE MOUNT TYPE, ASME SECTION VIII, DIV. I CONSTRUCTION, DESIGNED FOR 150 PSI MAX WORKING PRESSURE AND 200 F MAX WORKING TEMPERATURE. FDA APPROVED POLYPROPYLENE LINER, BUTYL DIAPHRAGM, STEEL SHELL, STAINLESS STEEL SYSTEM CONNECTION. 55 PSI FACTORY PRE-CHARGE.

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SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : PLUMBING NOTES, LEGENDS, AND SCHEDULES

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

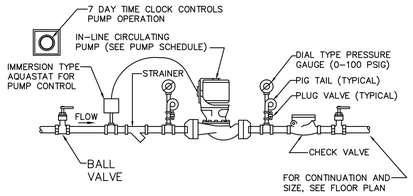
DATE: 11.14.16

REVISED DATE:

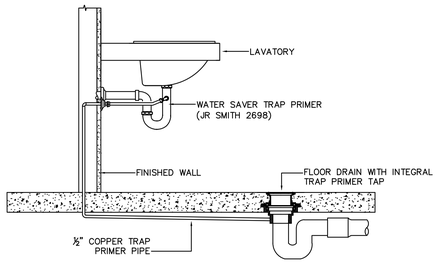
REVISED DATE:

REVISED DATE:

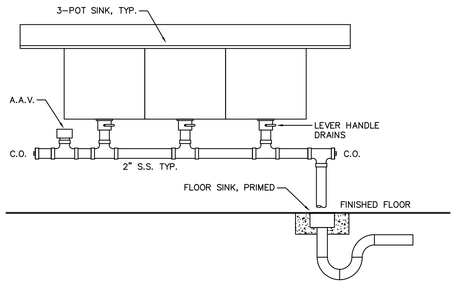
SHEET NO. : P0.1



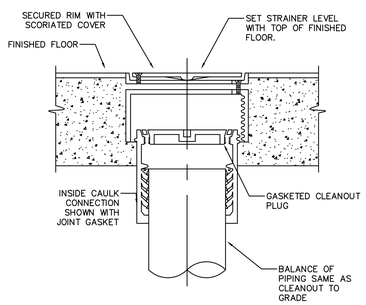
DPE-1 INLINE CIRCULATING PUMP DETAIL



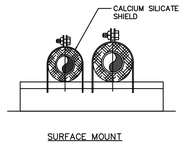
DPP-5 TYP. WATER SAVER TRAP PRIMER DETAIL



DPF-4 3 COMPARTMENT SINK DRAIN DETAIL

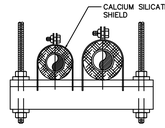


DPP-8 TYP. FLOOR CLEANOUT DETAIL



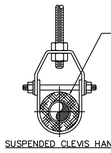
SURFACE MOUNT

NOTES:
1. SIZE STRUT TO ADEQUATELY SUPPORT LOAD (REFER TO MANUF. CATALOG)
2. SIZE CALCIUM SILICATE SHIELD TO FIT PIPE AND INSULATION THICKNESS.
3. SIZE CLAMP TO FIT CALCIUM SILICATE SHIELDS.
4. BOLT OR WELD STRUT TO STRUCTURE BELOW.



SUSPENDED TRAPEZE MOUNT

NOTES:
1. SIZE STRUT TO ADEQUATELY SUPPORT LOAD (REFER TO MANUF. CATALOG)
2. SIZE CALCIUM SILICATE SHIELD TO FIT PIPE AND INSULATION THICKNESS.
3. SIZE CLAMP TO FIT CALCIUM SILICATE SHIELDS.
4. AFFIX TO STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS.



SUSPENDED CLEVIS HANGER

NOTES:
1. SIZE HANGER TO ADEQUATELY SUPPORT LOAD (REFER TO MANUF. CATALOG)
2. SIZE CALCIUM SILICATE SHIELD TO FIT PIPE AND INSULATION THICKNESS.
3. SIZE HANGER TO FIT CALCIUM SILICATE SHIELDS.
4. AFFIX TO STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS.

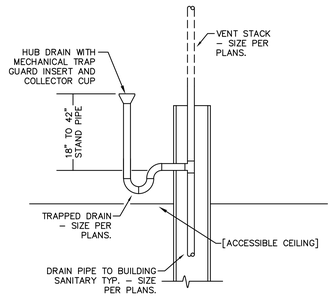
HANGER SPACING CHART

PIPE SIZE	ROD DIAM.	MAX. SPACING
1/2" - 1-1/4"	3/8"	7'
1-1/2"	3/8"	9'
2"	3/8"	10'
2-1/2"	1/2"	11'
3"	1/2"	12'
3-1/2"	1/2"	13'
4"	5/8"	14'
5"	5/8"	16'
6"	3/4"	17'
8"	3/4"	19'
10"	7/8"	22'
12"	7/8"	23'
14"	1"	25'
16"	1"	27'

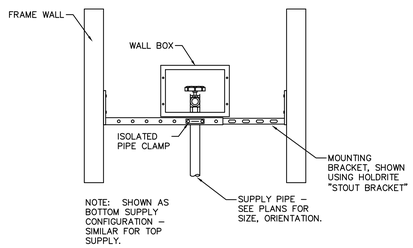
NOTE: ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH PIPE CLAMPS, AND SHALL BE PROTECTED BY 3" SHIELD INSIDE CLAMPS.

NOTE: ALL PIPE INSULATION LOCATED OUTSIDE OF BUILDING SHALL BE PROTECTED BY EMBOSSED METAL JACKETING.

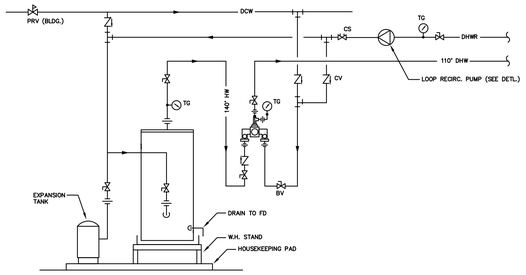
DP-8 TYP. PIPE HANGER DETAILS



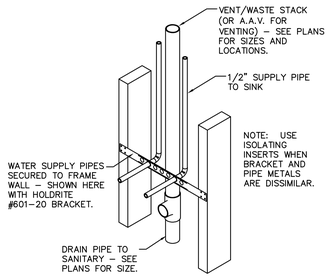
DPP-4 TYP. ABOVE CEILING CONDENSATE DRAIN



DPP-15 TYP. ICE MACHINE SUPPLY WALL BOX DETAIL

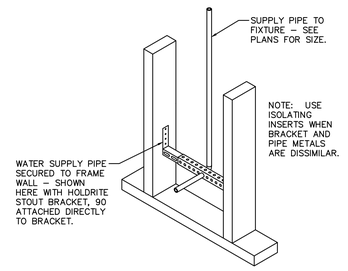


DPE-13 WATER HEATER WITH MIXING VALVE - PIPING DIAGRAM



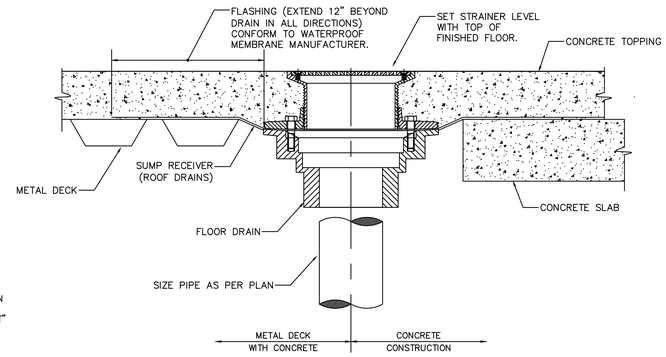
TYP. FOR LAVATORIES, SINKS, AND OTHER DUAL SUPPLY FIXTURES.

DPP-17 TYP. SINK AND LAV. ROUGH-IN DETAIL

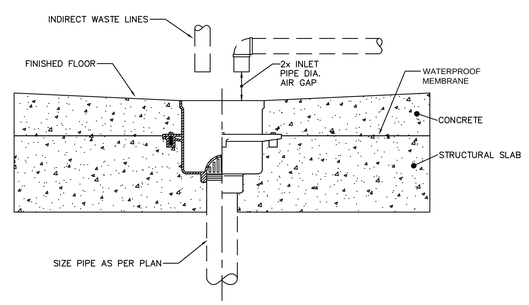


TYP. FOR WATER CLOSETS AND OTHER SINGLE SUPPLY FIXTURES (DRAIN NOT SHOWN).

DPP-19 TYP. SINGLE SUPPLY FIXTURE ROUGH-IN DETAIL



DPP-9 TYP. FLOOR DRAIN DETAIL



DPP-10 TYP. INDIRECT DRAIN DETAIL

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CEVIAN DESIGN LAB JOB #
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ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : PLUMBING TYP. DETAILS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

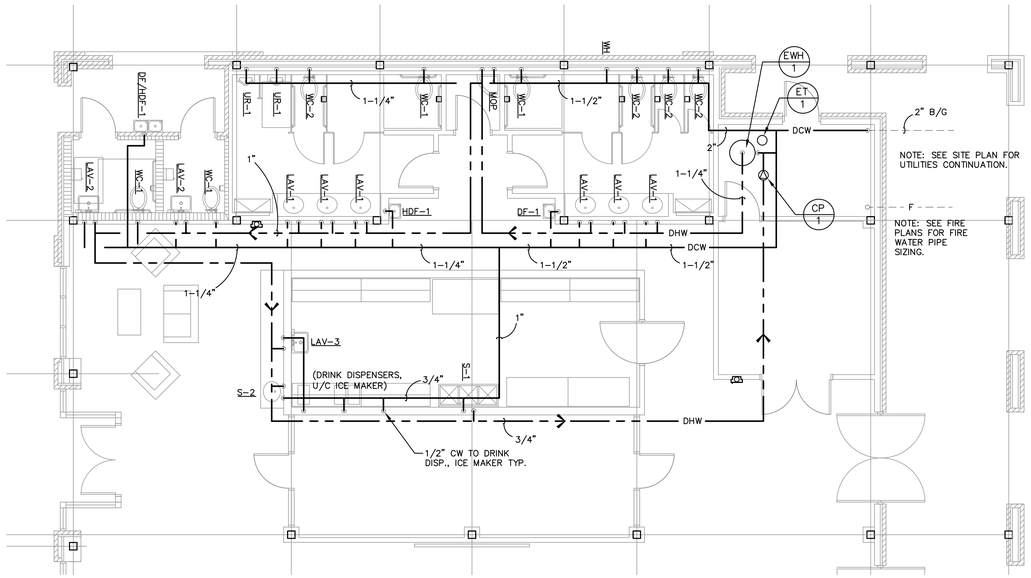
DATE: 11.14.16

REVISED DATE:

REVISED DATE:

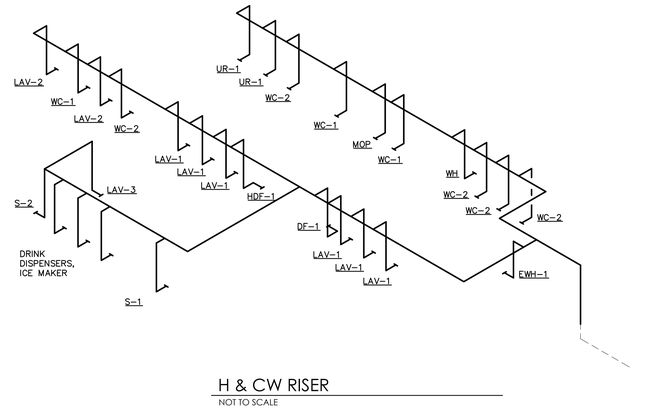
REVISED DATE:

SHEET NO. : P0.2



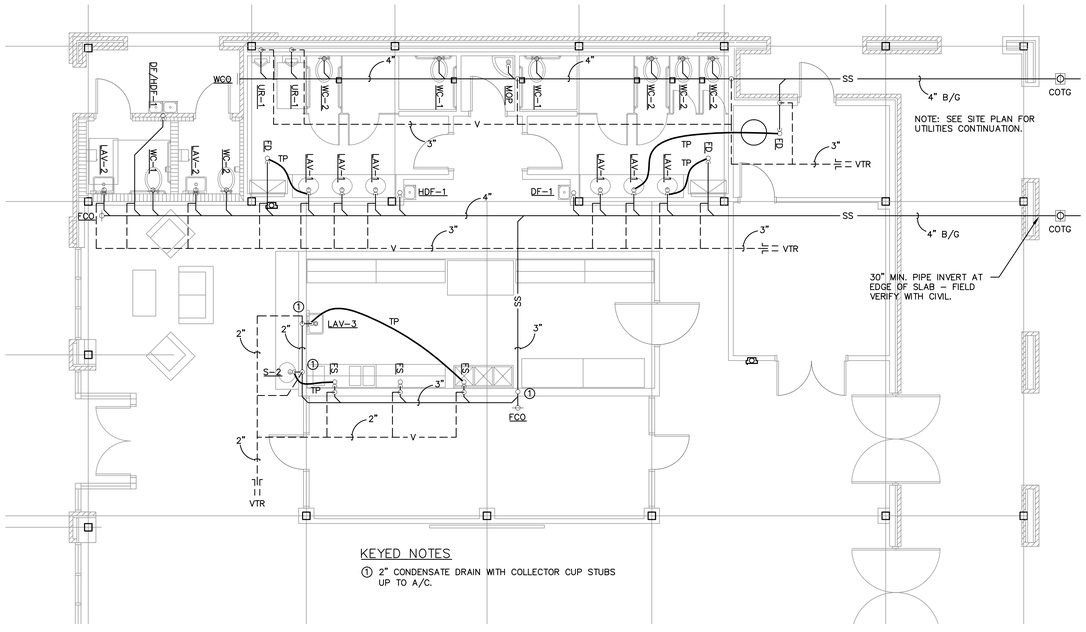
H & CW PLAN

SCALE : 3/16" = 1'-0"



H & CW RISER

NOT TO SCALE

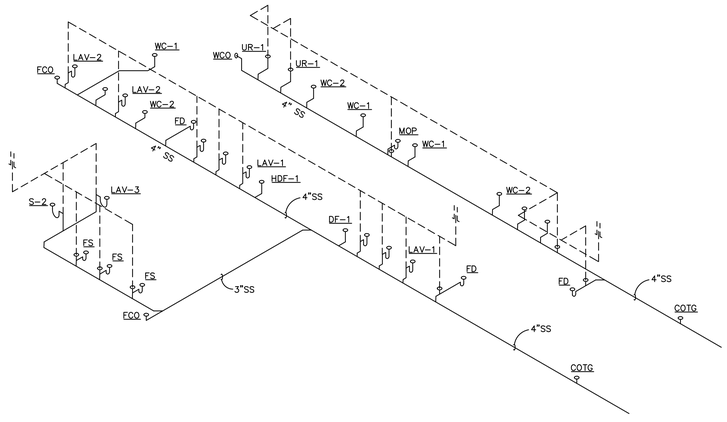


KEYED NOTES

① 2" CONDENSATE DRAIN WITH COLLECTOR CUP STUBS UP TO A/C.

SS & V PLAN

SCALE : 3/16" = 1'-0"



SS & V RISER

NOT TO SCALE

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15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : HW, CW, SS & V PLANS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : P1.1

SECTION 13900 – FIRE SUPPRESSION

PART 1 GENERAL

1.1 SUMMARY
- A. Section includes complete fire suppression system including, as required, sprinkler system, fire department connections and fire pump system for sprinkling of the building.
- B. The Work is shown on the project architectural drawings.
- C. The intent of this specification is for the Contractor to determine, based on site visit(s) and the architectural drawings, the labor, materials, equipment, and other items necessary for a complete sprinkling of the building per NFPA 13. This determination includes, but is not limited to, the use of fire pumps, jockey pumps, fire hoses, stand pipes, and other fire suppression equipment for a complete sprinkling of the building. The Fire Suppression Contractor should base his bid on this determination.
- D. The information contained in the specification on fire pumps is intended to be a guide in the selection and installation of such fire pumps. If, based on hydraulic calculations and hydrant testing, a pump is deemed to be necessary; it is the responsibility of the Contractor to coordinate with other applicable trades, e.g. the Division 16 contractor, to provide a complete and functional fire suppression system installation.

1.2 SYSTEM DESCRIPTION
- A. Sprinkler System: Conform to the following criteria:
  1. Coverage for entire building.
  2. Design system hydraulically to achieve the hazard occupancy requirements set forth in NFPA 13.
- B. Fire Pump (where applicable): Conform to the following criteria:
  1. Description: Electric motor driven.
  2. Design to NFPA 20.
  3. System to achieve performance required by NFPA 13.
- C. The Contractor shall be responsible for coordinating with all other trades.
- D. The Contractor shall be responsible for obtaining all necessary inspections, permits, utility connections, and paying all required fees.
- E. Areas subject to freezing shall be provided with a dry pipe system.

1.3 SUBMITTALS
- A. Shop Drawings: Indicate detailed fire pump and jockey pump layout, pipe layout, supports, components, accessories, sizes, and hydraulic calculations. Drawings to be on a scale of 1/8"= 1'-0" showing all equipment and piping installed under this section. Shop drawings shall be given drawing numbers, which shall be retained through all revisions.
- B. All shop drawings submitted shall be approved by the Fire Marshall before submission to the Architect for approval. Submit sufficient prints for architect to retain three copies.
- C. Product Data: Submit data for pipe materials used, valves, manufacturer's catalog sheet for equipment indicating rough-in size, finish, accessories, pump type, capacity, power requirements, certified pump curves, and NPSH.

1.4 CHARTS AND TAGS
- A. Provide three (3) sets of charts or diagrams showing outline plan of the structures and the essential features of the systems including all piping, equipment, valves, and controls.
- B. All valves, dampers, and controls shall be designated

1.5 CLOSEOUT SUBMITTALS
- A. Project Record Documents: Record actual locations of sprinkler heads.
- B. Operation and Maintenance Data: Submit description of components of system, servicing requirements, record drawings, inspection data, and parts lists.

1.6 QUALITY ASSURANCE
- A. Perform Work in accordance with:
  1. Sprinkler Systems: NFPA 13.
  2. Standpipe and Hose Systems: NFPA 14.
  3. Fire Pump System: NFPA 20.
- B. Design fire suppression system under direct supervision of a NICET qualified fire protection system designer experienced in design of this Work and licensed at Project location.

PART 2 PRODUCTS

2.1 PIPE AND TUBE
- A. Steel Pipe: ASTM A135 black welded or seamless, schedule 40 or 10.
  1. Steel Fittings: ASME B16.9, wrought steel, butt welded; ASME B16.25, butt weld ends; ASTM A234/A234M, wrought carbon steel and alloy steel; ASME B16.5, steel flanges and fittings; ASME B16.11, forged steel socket welded and threaded.
  2. Cast Iron Fittings: ASME B16.1, flanges and fittings; ASME B16.4, threaded fittings.
  3. Malleable Iron Fittings: ASME B16.3, threaded type; ASTM A47/A47M.
  4. Water service underground pipe to building shall be as per site plans.

2.2 GATE VALVES
- A. Up to and including 2 inches: Bronze body and trim, rising stem, hand wheel, solid wedge or disc, threaded ends.
- B. Over 2 inches: Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, hand wheel, OS&Y, solid bronze or cast iron wedge, flanged or grooved ends.

2.3 BUTTERFLY VALVES
- A. Bronze body, stainless steel disc, resilient replaceable seat, threaded ends, extended neck, hand wheel and gear drive and integral indicating device, tamper switch.
- B. Iron body, iron or bronze disc, EPDM seat, wafer, lug, or grooved ends, extended neck, hand wheel and gear drive, integral indicating device, tamper switch.

2.4 CHECK VALVES
- A. Up to and including 2 inches: Bronze body and swing disc, rubber seat, threaded ends.
- B. Over 2 inches: Iron body, bronze trim, swing check with rubber disc, renewable disc and seat, flanged ends.

2.5 DRAIN VALVES
- A. Bronze compression stop with hose thread nipple and cap.
- B. Brass ball valve with cap and chain, 3/4 inch hose thread.

2.6 SPRINKLERS
- A. Sprinkler brand: Viking, Tyco.
- B. Suspended Ceiling Type: Semi-recessed pendant type with chrome plated finish and matching escutcheon.
- C. Exposed Area Type: Standard upright type with brass finish.
- D. Guards: Finish to match sprinkler head.

2.7 SPRINKLER PIPING SPECIALTIES
- A. Wet Pipe Sprinkler Alarm Valve: Check type valve with electrically or hydraulically operated alarms, with pressure retard chamber and variable pressure trim.
- B. Dry Pipe Sprinkler Alarm Valve: Check type valve with electrically or hydraulically operated alarms, with accelerator.
- C. Flooding Deluge Valve: Gate type valve, actuated electrically with electrically operated alarms, with alarm testing trim.
- D. Water Motor Alarm: Hydraulically operated impeller type alarm gong, red enameled.
- E. Electric Alarm: Electrically operated red enameled gong with pressure alarm switch.
- F. Water Flow Switch: Vane type switch with two contacts.
- G. Pressure Maintenance Pump: Close coupled motor and pump unit, with open drip proof, permanently lubricated, 115 volt, single phase, 60 Hz, motor.
- H. Air Compressor: Single unit, electric motor driven, ASME rated horizontal receiver tank, air pressure operated, safety valves, check valves, automatic tank drain, muffler-filter, belt guard, controls and 115 volt, single phase, 60 Hz motor.

2.8 STANDPIPE EQUIPMENT
- A. Hose Cabinet: Formed steel construction, prime coated; recessed mounted; 16 gage thick with 12 gage thick door; glazed door style, hinged with positive latch device. Fire rated when installed within fire rated assemblies.
- B. Hose Rack: Steel with polished chrome finish; swivel or stationary type with pins and water stop.
- C. Hose: 100 feet of 1-1/2 inch synthetic hose.
- D. Nozzle: Brass; combination fog-straight stream and adjustable shut-off nozzle.
- E. Hose Station Valves: Angle type, 1-1/2 inch nominal size with ball drip.
- F. Hose Connection Valves: Brass, chrome plated finish, 2-1/2 inch size, thread to match fire department hardware, threaded dust cap and chain.

2.9 FIRE DEPARTMENT CONNECTION
- A. Type: Post mounted type in vault with brass finish.
- B. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
- C. Drain: 3/4 inch automatic drip.
- D. Label: "Fire Department Connection."
- E. Coordinate with local fire department on connection type before pricing job.

2.10 FIRE PUMP
- A. Pumps
  1. Type: UL 448 Centrifugal, direct connected.
  2. Casing: Cast iron, split case, single or double suction, rated for 150 psig or 1.25 times working discharge pressure, renewable bronze wearing rings, flanged suction and discharge.
  3. Impeller: Bronze, fully enclosed, keyed to shaft.
  4. Shaft: High-grade alloy steel with copper, bronze or stainless steel shaft sleeves.
  5. Bearings: Grease lubricated ball bearings.
  6. Drive: Flexible coupling with coupling guard.
  7. Seals: Packing gland with minimum four rings packing.
  8. Baseplate: High grade heat-treated cast iron or reinforced steel with integral drain rim.
- B. Accessories:
  1. Check valve in discharge pipe.
  2. OS&Y gate or butterfly valves on system side of check valve and on supply side of pump.
  3. Fire pump bypass fitted with OS&Y gate or butterfly valves and check valve.
  4. Relief valve.
  5. Pressure gages, suction and discharge.
  6. Temperature relief valve.
  7. Umbrella cock, automatic air release.
  8. Splash shield between pump and motor.
  9. Manifold with hose gate valves.
  10. Flow metering system for closed loop testing.
- C. Electric Drive: Squirrel cage type in open drip proof NEMA MG 1 enclosure, 208 volt, three phase, 60 Hz.
- D. Electric Motor Controls: Limited service type with reduced voltage starter.
  1. Alarm circuit for power failure.
- E. Operating Controls: Hand-off-automatic switch, fire water pressure switch to operate pump drive, fire water pressure switches for alarms, with indicating lights for low fire water pressure and high fire water pressure and contacts for remote circuits to indicate pump operational status and alarm status.

2.11PRESSURE BOOSTER (JOCKEY) PUMP
- A. Electrically operated, positive-displacement pressure booster pump, pressure switch operated.

2.12 ELECTRICAL CHARACTERISTICS AND COMPONENTS
- A. Per Division 16.

PART 3 EXECUTION

3.1 INSTALLATION
- A. Install in accordance NFPA 13, NFPA 14, NFPA 20.
- B. Install Work in accordance with Fire Department, Fire Marshall, and local and state Building Inspection's standards.
- C. Ream pipe and tube ends to full inside diameter. Remove burrs and bevel plain end ferrous pipe.
- D. Remove scale and foreign material, inside and outside, before assembly.
- E. Install sleeves where penetrating footings, floors, or walls. Seal pipe and sleeve penetration to maintain fire resistance equivalent to fire separation of footings, floors, or walls.
- F. Install pipe runs to minimize obstruction to other work. Offset around ductwork.
- G. Install piping in concealed spaces above finished ceilings.
- H. Install gate valves for shut-off or isolating service.
- I. Install drain valves at main shut-off valves, low points of piping and apparatus.
- J. Connect system to water source ahead of domestic water connection with double check valve assembly.
- K. Install heads to coordinate with reflected ceiling plan. Center in two directions in ceiling tiles.
- L. Protection:
  1. Apply temporary tape or paper cover to sprinkler heads to protect from painting.
  2. Protect concealed sprinkler head cover plates from painting.
- M. Install air compressor on vibration isolators.
- N. Install drain piping from tank to nearest floor drain.
- O. Interface sprinkler system with building fire and smoke alarm system.
- P. Locate fire department connection with sufficient clearance from walls, obstructions, or adjacent Siamese connectors to allow full swing of fire department wrench handle.
- Q. Install drain piping from pump bases, pump stuffing boxes, and pump casings to floor sinks or drains. Install air vents on pump cases.
- R. Install long radius elbows on suction side of pump. Do not support piping from pump casing.
- S. Align base mounted pumps. Install on vibration isolators.
- T. On jockey pumps, install shut-off valves, check valve, and relief valves.
- U. Flush entire piping system of foreign matter.
- V. Hydrostatically test entire system. Schedule test to be witnessed by authority having jurisdiction.

END OF SECTION

SECTION 15080 – PLUMBING INSULATION

PART 1 GENERAL

1.1 GENERAL
- A. Section 15010 applies.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN
- A. Manufacturers shown below as Basis of Design
  1. Acceptable Manufacturers for Glass Fiber and Mineral Fiber Insulation Products: CertainTeed, Knauf, Johns Manville, Owens-Corning.

2.2 PIPE INSULATION
- A. Domestic Hot Water Supply and Recirculation
  1. ASTM C547, molded glass fiber pipe insulation.
  2. Thermal Conductivity: 0.23 at 75 degrees F.
  3. Operating Temperature Range: 0 to 850 degrees F.
  4. Vapor Barrier Jacket: ASTM C1136, Type I, factory applied reinforced foil kraft with self-sealing adhesive joints.
  5. Jacket Temperature Limit: minus 20 to 150 degrees F.
  6. Thickness: 1" thickness for 1-1/2" pipe and smaller. 1-1/2" thickness for pipes larger than 1-1/2".
- B. Domestic Cold Water Supply and Condensate Piping
  1. ASTM C547, molded glass fiber pipe insulation.
  2. Thermal Conductivity: 0.23 at 75 degrees F.
  3. Operating Temperature Range: 0 to 850 degrees F.
  4. Vapor Barrier Jacket: ASTM C1136, Type I, factory applied reinforced foil kraft with self-sealing adhesive joints.
  5. Jacket Temperature Limit: minus 20 to 150 degrees F.
  6. Thickness: 1/2" thickness for all pipes.
- C. Pipe Insulation Jacket
  1. ASTM C921, white Kraft paper with glass fiber yarn, bonded to aluminized film.
  2. Water vapor transmission: ASTM E96/E96M; 0.02 perm-inches.

PART 3 EXECUTION

3.1 INSTALLATION – PIPING SYSTEMS
- A. Paint insulation to match ceiling where piping and pipe insulation are exposed to view.
- B. Verify piping and equipment has been tested before applying insulation materials. Verify surfaces are clean and dry, with foreign material removed. Piping Exposed to View in Finished Spaces: Locate insulation and cover seams in least visible locations.
- C. Continue insulation through penetrations of building assemblies or portions of assemblies having fire resistance rating of one hour or less. Provide expanding fire stopping when continuing insulation through assembly. Finish at supports, protrusions, and interruptions.
- D. Hot and Cold Piping Systems:
  1. Insulate entire system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints.
  2. Furnish factory-applied or field-applied standard jackets. Secure with outward clinch expanding staples or pressure sensitive adhesive system on standard factory-applied jacket and butt strips or both.
  3. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with glass cloth and adhesive or PVC fitting covers.
  4. Do not insulate unions and flanges at equipment, but bevel and seal ends of insulation at such locations. For hot piping systems above 140 degrees F, insulate unions and flanges at equipment.
- E. Inserts and Shields:
  1. Piping 1-1/2 inches Diameter and Smaller: Install steel shield between pipe hanger and insulation.
  2. Piping 2 inches Diameter and Larger: Install insert between support shield and piping and under finish jacket.
     - a. Insert Configuration: Minimum 6 inches long, of thickness and contour matching adjoining insulation; may be factory fabricated.
     - b. Insert Material: Compression resistant insulating material suitable for planned temperature range and service.
  3. Piping Supported by Roller Type Pipe Hangers: Install galvanized steel shield between roller and inserts.
     - a. Condensate Piping: Insulate entire piping system and components inside the building space to prevent condensation.
     - b. Pipe exposed in Mechanical Equipment or Finished Spaces: Finish with PVC jacket and fitting covers. Labels on exterior covers should be oriented so as to be easily readable and shall have directional flow arrows.

END OF SECTION

SECTION 15401 – PLUMBING FIXTURES

PART 1 GENERAL

1.1 GENERAL
- A. Section 15010 is applicable.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN
- A. Fixture and accessory brands and model numbers shown below are intended to establish minimum acceptable quality. Models deemed by the engineer to be of inferior quality as compared to the Basis of Design will not be accepted. Equivalent fixtures and accessories by the manufacturers noted below are acceptable unless noted otherwise.
  3. Fixtures: Toto, Kohler, Crane, American Standard
  4. Sinks: Just, Moen, Kohler, Advance Tabco, Elkay, Toto
  5. Faucets: Toto, Delta, Kohler, Zurn, Symmons, Moen
  6. Supplies: Brasscraft, McGuire, ProFlo, Franklin Brass
  7. Water Closet Seats: Kohler, Toto, American Standard, Proflo, Bemis, Beneke
  8. Drinking Fountains: Elkay, Kohler
  9. Fixture Carriers: J.R. Smith, Zurn, Josam
  10. Floor drains: Watts, J.R. Smith, Josam, Zurn
  11. Indirect drains: Watts, J.R. Smith, Josam, Zurn
  12. Cleanouts: Watts, J.R. Smith, Josam, Zurn, Wade
  13. Hose Bibbs: Woodford, Chicago, T&S Brass
  14. Wall Hydrants: Josam, Woodford, Smith
  15. Clinical sinks: Kohler, American Standard

PART 3 PLUMBING FIXUTURES:

3.1 SEE FIXTURE SCHEDULE

PART 4 EXECUTION

4.1 INSTALLATION
- A. Verify adjacent construction is ready to receive rough-in work of this section. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough in and installation. If discrepancies exist between millwork sizes and fixtures specified, contact Engineer for direction.
- B. All fixtures shall be installed straight, level, and plumb. When three or more of the same fixture are installed adjacent to each other, use equal spacing between fixtures.
- C. All fixtures and equipment shall be installed with all accessories required for a complete and fully functional installation, regardless of whether all equipment and accessories are listed on the plans or in the specifications.
- D. All vitreous china fixtures shall be bright white in color unless otherwise noted. Faucets shall be polished chrome unless otherwise noted. If these colors are unavailable, contact Engineer for approved alternatives.
- E. Install each fixture with chrome plated rigid or flexible supplies with screwdriver stops, reducers, and escutcheons. All water and drain piping exposed to view shall be chrome plated. Piping underneath counters with closing doors need not be chrome plated.
- F. All handicapped fixtures shall be installed according to ADA and local code requirements. All handicapped drains shall be covered.
- G. All floors where floor drains are installed shall slope to drain, minimum 2%. This contractor shall coordinate with the applicable trades to ensure that the proper slope is achieved.
- H. Prime all floor drains. Where accessible, prime drain by water-saver trap primer from adjacent lavatory. Otherwise prime floor drain using water-valve type primer from domestic water supply. In lieu of water-based trap primers, PROVENT trap guards may be used where AHJ allows.
- I. All pressure operated fixtures and equipment shall be furnished with water stops. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.
- J. All hand washing fixtures shall have a delivered water temperature limit of 110 degrees F unless specified otherwise. This may be accomplished with a tempering valve at each device to maintain delivered temperature below 110 F. See plans for location of tempering valves as applicable.

END OF SECTION

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11/14/2016

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LANKFORD EVENT CENTER

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REVISION #	DATE / COMMENTS
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SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : PLUMBING SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : P2.1

SECTION 15100 – PLUMBING PIPING AND ACCESSORIES

PART 1 GENERAL

1.1 GENERAL

A. Section 15010 is applicable.

1.2 PRESSURE

A. The working pressure of all pipes, fittings, valves, and joints shall be in excess of the maximum system pressure and maximum system temperature at the point of installation.

PART 2 PRODUCTS

2.1 PIPE HANGERS AND SUPPORTS

A. Conform to ASME B31.9, ASTM F708.

B. Hangers for Non Insulated Pipe Sizes 1/2 to 1–1/2 inch: Malleable iron or carbon steel, adjustable swivel, split ring.

C. Hangers for Insulated and Non Insulated Pipe Sizes ½" to 30 inches: Carbon steel, adjustable, clevis.

D. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

E. Vertical Support: Steel riser clamp.

F. Wall Support for Pipe Sizes to 3 inches: Cast iron hook.

G. Wall Support for Pipe Sizes 4 inches and Over: Welded steel bracket and wrought steel clamp.

H. Copper Pipe Support: Copper–plated, carbon–steel adjustable, ring.

I. Floor Support for horizontal Pipe Sizes to 4 inches: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

J. Floor Support for horizontal Pipe Sizes 6 inches and Over: Adjustable cast iron roll and stand, steel screws, and concrete pier or steel support.

K. Ground support for exterior horizontal Pipe: Adjustable stainless steel roll and stand, and concrete pier support.

2.2 PIPE SLEEVES

A. Sleeves are defined as holes that are provided to permit the passage of pipe (and insulation) through walls or floors. Soil, waste, vent, and domestic water pipes stubbed through walls and floors for plumbing fixture connections do not require sleeves.

B. Masonry: Sleeves shall be schedule 40 steel pipe and shall be large enough to accommodate continuous passage of pipe plus insulation through the wall or floor system. Pipe sleeves shall extend 1" on both sides of a wall or floor.

C. Concrete:
1. Sleeves through concrete walls and floor shall be formed by any device that forms a neat circular hole, of proper size, through the wall or floor system. Acceptable devices are pipe and sheet metal.
2. Structural floor sleeves require extension above the floor surface to prevent water passage down the sleeves, and shall be made of schedule 40 black steel pipe extended 1" above the floor.

D. Other Sleeves: Where sleeves pass through wood, drywall, plaster partitions, or suspended ceilings, sleeves shall be neatly cut holes sealed with caulk, finished with chrome plated escutcheon where exposed in visible areas.

E. Sealing of annular space: For sleeves in masonry and concrete walls and elevated floor slabs, non–rated, annular spaces shall be packed with silicone RTV foam. Sleeves in exterior walls shall be sealed with a 'Link Seal' assembly or packed with fiberglass and sealed at both ends with weather–resistant, non–hardening caulk. Where escutcheons are not required, the annular space shall be neatly sealed at the sleeve end. Pipes passing through ducts and plenums shall be sealed air tight. Annular spaces that pass through fire resistive or fire rated partitions, or ceilings shall be closed with 3M Fire Barrier Penetration Sealing System.

F. Unused holes in floors made for duct or pipe penetrations shall be sealed neatly to match existing wall or floor.

G. All sleeves shall be sized for full pipe size plus pipe insulation thickness through the entire length of the sleeve.

2.3 ESCUTCHEONS

A. Escutcheons are annular shaped metal plates installed to cover annular spaces around pipes entering walls, floors, or other partitions. They are installed for decorative purposes in areas where these penetrations are visible. Escutcheons shall be chrome plated steel, fastened to remain secure and in position at all times.

B. Escutcheons for water closets, plated supply pipes, and shower heads shall be chrome plated brass with setscrew.

C. Escutcheons are not to be installed on the bell of any soil or drain pipes, on any pipe larger than 4", on insulated pipe if exterior diameter of insulation is larger than 4", or on pipes which do not enter the wall or floor at right angles.

2.4 FLASHING

A. Flashing shall be sheet lead, 4 lbs. per square foot, and shall extend out from pipe and edge of drain a minimum of 12".

B. Roof drains, floor drains, area drains, and equipment room drains installed where membrane water–proofing is installed shall be flashed.

C. Vent stacks and other pipes through roof shall be flashed. Flashing may be caulked into pipe bell if flush with finished roof, or on 3" and larger may employ 4 lb. boot flashing. Vents shall extend a minimum of 12" above finished roof elevation at penetration. Refer to roof pipe portals for piping through roof other than sanitary vents or overflow drains.

2.5 PIPES AND TUBES

A. Sanitary Sewer (SS), Vent Piping (V)
1. Sanitary Sewer (SS): PVC, schedule 40, with PVC fittings and elastomeric gasket joints. Solvent weld with ASTM D2564 solvent cement.
2. Vent Piping (V): PVC, schedule 40, with PVC fittings and elastomeric gasket joints. Solvent weld with ASTM D2564 solvent cement.
3. Fire wrap PVC piping in HVAC plenums.

B. Domestic Water Piping, Cold water (CW), Hot water (HW) & Hot water return (HWR)
1. Underground: Type K Copper Tubing ASTM B42, Tempered O61 annealed without fittings.
2. Above ground: Type L copper tubing, ASTM B88, drawn with wrought copper fittings and grade 95TA solder joints.
3. Exposed fixtures: Chrome plated brass and copper tubing with threaded plated brass fittings.

C. TPR Drain Piping:
1. Type L copper tubing, ASTM B88, drawn with wrought copper fittings and grade 95TA solder joints.

D. Trap Primer piping (TP):
1. Type K Copper Tubing ASTM B42, Tempered O61 annealed without fittings.

E. Condensate Piping:
1. Type L copper tubing, ASTM B88, drawn with wrought copper fittings and grade 95TA solder joints. Insulate same as domestic cold water above grade, paint insulation to match ceilings if exposed.

2.6 VALVES

A. For drinking water service, provide valves complying with NSF 61.

B. Gate Valves:
1. Up to 2 inches: Bronze body, bronze trim, non–rising stem, hand wheel, inside screw, double wedge disc, soldered or threaded.
2. Over 2 inches: Iron body, bronze trim, rising stem, hand wheel, OS&Y, solid wedge, flanged or grooved ends.

C. Ball Valves:
1. Up to 2 inches: Bronze or stainless steel one piece body, chrome plated brass ball, teflon seats and stuffing box ring, lever handle, solder or threaded ends.
2. Over 2 inches: Cast steel flanged body, chrome plated steel ball, Teflon seat and stuffing box seals and lever handle.

D. Relief Valves:
1. Bronze body, Teflon seat, stainless steel stem and springs, automatic, direct pressure actuated capacities ASME certified and labeled.

E. Plug Valves:
1. Up to 2 inches: Bronze body, bronze tapered plug, non–lubricated, Teflon packing, threaded ends.
2. Over 2 inches: Cast iron body and plug, pressure lubricated, Teflon packing, flanged ends.

F. Butterfly Valves:
1. Up To 2 inches: Bronze body, stainless steel disc, resilient replaceable seat, threaded ends, extended neck, 10–position lever handle.
2. Over 2 inches: Iron body, chrome plated iron disc, resilient replaceable seat, wafer or lug ends, extended neck, 10 position lever handle.

G. Swing Check Valves:
1. Up to 2 inches: Bronze body and swing disc, solder or threaded ends.
2. Over 2 inches: Iron body, bronze trim, swing disc, renewable disc and seat, flanged ends.

H. Spring Loaded Check Valves:
1. Iron body, bronze trim with threaded, wafer or flanged ends and stainless steel spring with renewable composition disc.

I. Relief Valves:
1. Bronze body, Teflon seat, stainless steel stem and springs, automatic, direct pressure actuated capacities ASME certified and labeled.

2.7 METERS AND GAGES

A. Thermometers:
1. Scale Range: Temperature ranges for services listed are as follows:
a. Domestic Hot Water: 30 to 240 deg F, with 2–degree scale divisions
b. Domestic Cold Water: 0 to 100 deg F, with 2–degree scale divisions

B. Liquid–in–Glass Thermometers Description: ASTM E 1.
a. Case: Die cast and aluminum finished in baked–epoxy enamel, glass front, spring secured, 9 inches (230 mm) long.
b. Adjustable Joint: Finish to match case, 180–degree adjustment in vertical plane, 360–degree adjustment in horizontal plane, with locking device.
c. Tube: Red or blue reading, organic–liquid filled with magnifying lens.

Retain paragraph above or below. Tube type above is recommended.
d. Tube: Red or blue reading, mercury filled with magnifying lens.
e. Scale: Satin–faced nonreflective aluminum with permanently etched markings.
f. Stem: Copper–plated steel, aluminum, or brass for separable socket; of length to suit installation.
2. Thermometer Wells: Fitting with protective well for installation in threaded pipe fitting to hold test thermometer.
a. Material: Brass, for use in copper piping.
b. Material: Stainless steel, for use in steel piping.
c. Material: Steel, for use in steel piping.
d. Extension–Neck Length: Nominal thickness of 2 inches but not less than thickness of insulation. Omit extension neck for wells for piping not insulated.
e. Retain one of three subparagraphs below.
f. Insertion Length: To extend to one–third of diameter of pipe.
g. Cap: Threaded, with chain permanently fastened to socket.
h. Heat–Transfer Fluid: Oil or graphite.

C. Pressure Gages
1. Description: ASME B40.1, phosphor–bronze bourdon–tube type with bottom connection; dry type, unless liquid–filled–case type is indicated.
2. Cases are also constructed of molded aluminum and phenolic plastic. Lenses are also made of clear acrylic plastic.
3. Case: Drawn steel, brass, or aluminum with 4–1/2–inch diameter, glass lens.
4. Connector: Brass, NPS 1/4.
5. Scale: White–coated aluminum with permanently etched markings.
6. Range: 0–100 PSI.

D. Test Plugs
1. Description: Nickel–plated, brass–body test plug in NPS 1/2 fitting.
2. Body: Length as required to extend beyond insulation.
3. Pressure Rating: 500 psig minimum.
4. Core Inserts: One or two self–sealing valves, suitable for inserting 1/8–inch OD probe from dial–type thermometer or pressure gage.
5. Test–Plug Cap: Gasketed and threaded cap, with retention chain or strap.
6. Test Kit: Pressure gage and adapter with probe, two bimetal dial thermometers, and carrying case.

E. Calibrated Flow Balancing Valves
1. Furnished with calibrated nameplate and memory stop.
2. Fitted with capped readout fittings.

F. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Liquid–in–Glass Thermometers:
a. Dresser Industries, Inc.; Instrument Div.; Weksler Instruments Operating Unit.
b. Ernst Gage Co.
c. Marsh Bellofram.
d. Palmer Instruments, Inc.
e. Trerice: H. O. Trerice Co.
f. Weiss Instruments, Inc.
g. Winter's Thermogauges, Inc.
2. Pressure Gages:
a. AMETEK, Inc.; U.S. Gauge Div.
b. Dresser Industries, Inc.; Instrument Div.; Ashcroft Commercial Sales Operation.
c. Dresser Industries, Inc.; Instrument Div.; Weksler Instruments Operating Unit.
d. Ernst Gage Co.
e. Marsh Bellofram.
f. Noshok, Inc.
g. Trerice: H. O. Trerice Co.
h. Weiss Instruments, Inc.
i. WIKA Instruments Corp.
j. Winter's Thermogauges, Inc.
3. Test Plugs:
a. Flow Design, Inc.
b. MG Piping Products Co.
c. National Meter.
d. Peterson Equipment Co., Inc.
e. Sisco Manufacturing Co.
f. Trerice: H. O. Trerice Co.
g. Watts Industries, Inc.; Water Products Div.
4. Calibrated Flow Balancing Valve:
a. Taco
b. Bell & Gossett
c. Macon

2.8 PIPING SPECIALTIES

A. Flanges, Unions, and Couplings:
1. Pipe Size 2 inches and Under: Malleable iron unions for threaded ferrous piping; bronze unions for copper pipe, soldered joints.
2. Pipe Size Over 2 inches: Forged steel flanges for ferrous piping; bronze flanges for copper piping; preformed neoprene gaskets.
3. Grooved and Shouldered Pipe End Couplings: Malleable iron housing, C–shape elastomer composition sealing gasket, steel bolts, nuts, and washers.
4. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier. Dielectric unions shall be used for joining ferrous and non–ferrous metals to prevent galvanic corrosion.

B. Strainers:
1. Size 2 inches and Under: Threaded brass or iron body for 175 psig working pressure, Y pattern with 1/32 inch stainless steel perforated screen.
2. Size 2–1/2 inch to 4 inch: Flanged iron body for 175 psig working pressure, Y pattern with 3/64 inch stainless steel perforated screen.

C. Flexible Connectors:
1. Corrugated stainless steel hose with single layer of stainless steel exterior braiding, minimum 9 inches long with copper tube ends; for maximum working pressure 300 psig.

D. Water Hammer Arrestors:
1. Install on all fixture branches having quick–closing valves and at the tops of all risers to prevent water hammer. Each water hammer arrestor shall be sized and certified according to the Plumbing and Drainage Institute standard – WH201.

2.9 DRAINAGE FIXTURES

A. Floor Drain (FD): Floor drain shall be epoxy coated cast iron drain with anchor flange, reversible clamping collar with primary and secondary weep holes, adjustable round nickel bronze strainer and no hub outlet.
1. Basis of design: Watts FD–100–A

2.10 CLEANOUTS (CO)

A. Cleanouts shall be provided at the base of each stack, and at each change in direction greater than 45 degrees. Cleanouts shall be of the same nominal size as the connected pipe up to and including 4" and not less than 4" in larger pipe.

B. The distance between cleanouts in horizontal soil and waste lines shall not be greater than 50 feet for pipes up to and including 3", 80 feet for lines 4" and larger.

C. All cleanouts shall be made with a caulking cast ferrule having a cast brass cleanout screw plug, having a raised nut not less than 1" high, except that cleanouts underground under floor slabs shall be extended through the slabs, flush with the floor line, provided with countersunk caps.

D. Basis of Design: J.R. Smith, according to the following table.
1. Exposed piping, cast iron: 4470
2. Exterior or unfinished area floors, cast iron: 4031
3. Finished ceramic or quarry tile floors: 4051
4. Vinyl tile floors (recessed top for tile insert): 4151
5. All walls: 4472
6. Carpeted area floors (carpet cleanout markers): 4031–X

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify excavations are to required grade, dry, and not over–excavate.

3.2 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and dirt, on inside and outside piping before assembly.

C. Prepare piping connections to equipment with flanges or unions.

3.3 INSTALLATION – INSERTS

A. Install inserts for placement in concrete forms.

B. Install inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.

C. Provide hooked rod to concrete reinforcement section for inserts carrying pipe over 4 inches.

D. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.

E. Where inserts are omitted, drill through concrete slab from below and provide through–bolt with recessed square steel plate and nut recessed into and grouted flush with slab.

3.4 INSTALLATION – PIPING SYSTEMS

A. Install dielectric connections wherever joining dissimilar metals.

B. Label all piping with labels and directional flow arrows per 22 0001.

C. Install unions downstream of valves and at equipment or apparatus connections.

D. Route piping parallel to building structure and maintain gradient.

E. Install piping to maintain headroom. Group piping to conserve space. Group piping whenever practical at common elevations.

F. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

G. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

H. Sleeve pipe passing through partitions, walls and floors.

I. Install piping system allowing clearance for installation of insulation and access to valves and fittings.

J. Install identification on piping systems including underground piping.

K. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

3.5 INSTALLATION – VALVES

A. Install valves with stems upright or horizontal, not inverted.

B. Install ball or butterfly valves for shut–off and to isolate equipment, part of systems, or vertical risers.

C. Install ball or butterfly valves for throttling, bypass, or manual flow control services.

D. Provide lug end butterfly valves adjacent to equipment when functioning to isolate equipment.

E. Install spring loaded check valves on discharge of pumps.

F. Install plug valves for throttling service. Install non–lubricated plug valves only when shut–off or isolating valves are also installed.

G. Install 3/4 inch drain ball valves at main shut–off valves, low points of piping, bases of vertical risers, and equipment drains. Pipe to nearest drain.

3.6 INSTALLATION – PIPING SPECIALTIES

A. Install pressure gages with pulsation dampers. Provide ball valve to isolate each gage. Extend nipples and siphons to allow clearance from insulation.

B. Install thermometers in piping systems in sockets in short couplings. Enlarge pipes smaller than 2–1/2 inches for installation of thermometer sockets. Allow clearance from insulation.

C. Install gages and thermometers in locations where they are easily read from normal operating level. Install vertical to 45 degrees off vertical.

D. Adjust gages and thermometers to final angle, clean windows and lenses, and calibrate to zero.

E. Provide drain and hose connection with valve on strainer blow down connection.

F. Test backflow preventers in accordance with ASSE.

3.7 INSTALLATION – PLUMBING SUPPLY PIPING

A. Install water piping in accordance with ASME B31.9.

B. Insulate all domestic hot water (and recirculating) pipes and domestic cold water pipes per specs.

C. Establish elevations of buried piping outside the building to obtain not less than two (2) ft of cover.

D. Provide support for utility meters in accordance with requirements of utility companies.

E. Slope water piping and arrange to drain at low points.

F. Install piping from relief valves, back–flow preventers and drains to nearest drain.

G. Install water hammer arrestors complete with accessible isolation valve on hot and cold water supply piping to lavatories, sinks, washing machine outlets, and other fixtures and equipment with quick acting valves.

H. Provide water service complete with approved reduced pressure back–flow preventer and water meter with by–pass valves, pressure reducing valve, and sand strainer.

I. Install flow controls in water circulating systems as indicated on Drawings.

J. Disinfecting of Domestic Water Systems:
1. Prior to starting, verify system is complete, flushed and clean.
2. Verify pH of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid (hydrochloric).
3. Inject disinfectant, free chlorine in liquid, powder and tablet or gas form, throughout system to obtain residual from 50 to 80 mg/L.
4. Bleed water from outlets to obtain distribution and test for disinfectant residual at minimum 15 percent of outlets.
5. Maintain disinfectant in system for 24 hours.
6. When final disinfectant residual tests less than 25 mg/L, repeat treatment.
7. Flush disinfectant from system until residual concentration is equal to incoming water or 1.0 mg/L.
8. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C651.

3.8 INSTALLATION – PLUMBING DRAINAGE PIPING

A. Install bell and spigot pipe with bell end upstream.

B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Install with clearance at cleanout for rodding of drainage system.

C. Encase exterior cleanouts in concrete flush with grade.

D. Install floor cleanouts at elevation to accommodate finished floor.

E. Establish elevations of buried piping outside building to provide not less than 2 ft of cover.

F. Install piping penetrating roofed areas to maintain integrity of roof assembly.

G. Establish invert elevations, slopes for drainage per plumbing plan notes. Maintain gradients.

H. Test drainage piping in accordance with local code requirements.

3.9 INSTALLATION – PIPE HANGERS AND SUPPORTS

A. Support horizontal piping as scheduled.

B. Install hangers with minimum 1/2 inch space between finished covering and adjacent work.

C. Place hangers within 12 inches of each horizontal elbow.

D. Use hangers with 1–1/2 inch minimum vertical adjustment.

E. Support horizontal cast iron pipe adjacent to each hub, with 5 feet maximum spacing between hangers.

F. Support vertical piping at every floor. Support vertical cast iron pipe at each floor at hub.

G. Where piping is installed in parallel and at same elevation, provide multiple pipe or trapeze hangers.

H. Design hangers for pipe movement without disengagement of supported pipe.

I. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered exposed.

3.10 SERVICE CONNECTIONS

A. Install sanitary sewer services. Before commencing work check invert elevations required for sewer connections, confirm inverts and verify proper slope for drainage and proper cover to avoid freezing.

3.11 PIPE CLEANING

A. Flush heating system hot water, and cooling system chilled water piping with clean water. Where temporary construction strainers are installed, remove and install permanent strainer. Remove and clean or replace other strainer screens.

END OF SECTION

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11/14/2016

CITY OF CEDARTOWN, GEORGIA

LANKFORD EVENT CENTER

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REVISION #	DATE / COMMENTS

SCHEMATIC DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY:
CEVIAN® Design Lab, LLC
ISSUE DATE
11/14/16

SHEET TITLE : PLUMBING SPECIFICATIONS

MCKEE JOB # : 16.112

DRAWN BY : CH / WW

DATE: 11.14.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : P2.2

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	MOUNTING	NOTES
A1	2'x4' LED ACRYLIC TROFFER	HE WILLIAMS	50G-S24-L60/835-RA12125-DRV-120	L.E.D.	RECESSED	–
A1E	2'x4' LED ACRYLIC TROFFER (EMERGENCY)	HE WILLIAMS	50G-S24-L60/835-RA12125-EM10W-DRV-120	L.E.D.	RECESSED	1
B1	4'-0" LED VANDAL DECORATIVE WRAP	LUMINAIRE LTG	VPP4-4-25W-35K-120-CP-BRZ	L.E.D.	SURFACE	–
B1E	4'-0" LED VANDAL DECORATIVE WRAP (EMERGENCY)	LUMINAIRE LTG	VPP4-4-25W-35K-120-CP-BRZ-EM310	L.E.D.	SURFACE	1
C1	4'-0" LED STRIP WITH WIREGUARD	HE WILLIAMS	75L-4-L38/835-A12125-WG-7511-LED-DRV-120	L.E.D.	SURFACE	2
C1E	4'-0" LED STRIP WITH WIREGUARD (EMERGENCY)	HE WILLIAMS	75L-4-L38/835-A12125-EM10W-WG-7511-LED-DRV-120	L.E.D.	SURFACE	1, 2
D1	4" L.E.D. DOWNLIGHT	INTENSE LIGHTING	SS4G2-3000-358/IC430HZ-SFW	L.E.D.	RECESSED	–
D1E	4" L.E.D. DOWNLIGHT (EMERGENCY)	INTENSE LIGHTING	SS4G2-3000-358-EM2/IC430HZ-SFW	L.E.D.	RECESSED	2
D2	6" SQUARE L.E.D. DOWNLIGHT	INTENSE LIGHTING	IHOL-6DS-L1-35-LUT-50/ISD600-HZ-SF	L.E.D.	RECESSED	9
EM	ARCHITECTURAL EMERGENCY BATTERY PACK	BEGHELLI LIGHTING	EL28-120-FINISH	L.E.D.	RECESSED	–
F1	6" LED PENDANT (BLACK FINISH)	INTENSE LIGHTING	SS6G2C-3000-358-BHZ-C144	L.E.D.	RECESSED	–
L1	FIXTURE NOT USED	–	–	–	–	–
OA	6" LED DOWNLIGHT (WET LOCATION)	INTENSE LIGHTING	SS6G2-3000-308/IC632HZ-SFW-SB	L.E.D.	RECESSED	–
OB1	LED WALL LANTERN	KICHLER	97070ZLED	L.E.D.	WALL	–
OB2	LED WALL LANTERN	KICHLER	97090ZLED	L.E.D.	WALL	–
OC	LED BOLLARD	HINKLEY	15612BZ-LED	L.E.D.	ON-GRADE	–
OD	LED PARKING	VISIONAIRE	VMX1-T4-96-7-208-ARM-BZ	L.E.D.	POLE	4
OE	LED PEDESTRIAN	KICHLER	99090ZLED	L.E.D.	POLE	5
P1	16" LED DECORATIVE PENDANT	DALS	1426-LEDSB4-35K-120-GG	–	PENDANT	–
P2	10" INCANDESCENT DECORATIVE PENDANT	BESA LIGHTING	1JT-4644GD-EDI-BR	(1) 40W EDISON	PENDANT	–
P3	25" INCANDESCENT DECORATIVE PENDANT	CURRAY & COMPANY	SIMPLICITY SMALL 9256	(6) 60W INC	PENDANT	–
P4	FIXTURE NOT USED	–	–	–	–	–
P5	FIXTURE NOT USED	–	–	–	–	–
T1	SINGLE CIRCUIT TRACK WITH LED TRACK HEAD	INTENSE LIGHTING	TRASK: ISW HEAD: MXGL2309-DIM-W-24	L.E.D.	PENDANT	6
W1	10" INCANDESCENT DECORATIVE PENDANT	BESA LIGHTING	1JT-464488-EDI-SN	(1) 40W EDISON	PENDANT	–
X1	LED EXIT SIGN WITH BATTERY BACK-UP	BEGHELLI LIGHTING	LC1-E-SA-LR-1-B-AL-AT	L.E.D.	WALL	–

LIGHT FIXTURE SCHEDULE NOTES

1. PROVIDE OPTIONAL EMERGENCY BATTERY PACK AS INDICATED.
2. PROVIDE OPTIONAL WIREGUARD AS INDICATED.
3. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FIXTURE LENGTHS.
4. PROVIDE 30'-0" SQUARE STEEL POLE, VISIONAIRE #SNTS-5S-11-30-12BC-136-S1-BZ.
5. FIXTURES ARE NOT IN SCOPE OF WORK, SHOWN ONLY FOR FUTURE WORK.
6. REFER TO DRAWINGS FOR TRACK LENGTH. PROVIDE ALL ENC CAPS, POWER FEEDS, ETC. FOR A COMPLETE WORKING TRACK SYSTEM.
7. REFER TO DRAWINGS FOR NUMBER OF FACES AND DIRECTIONAL ARROWS.
8. PROVIDE "BLACK" FINISH, COORDINATE WITH ARCHITECT PRIOR TO ORDERING.
9. PROVIDE OPTIONAL LUTRON DIMMING BALLAST AS INDICATED. PROVIDE LED CONTROL WIRING TO LUTRON DIMMING SYSTEM AS DIRECTED BY MANUFACTURER.

LIGHTING CONTROL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION REQUIRED FOR A COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.
3. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATION OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.
4. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
5. ALL ULTRASONIC CEILING MOUNTED SENSORS SHALL BE LOCATED A MINIMUM OF 6'-0" FROM HVAC SUPPLY AND RETURN DIFFUSERS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL AND NATIONAL CODES.
7. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM. THIS SERVICE IS PROVIDED AT NO ADDITIONAL COST.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BOTH THE MANUFACTURER AND THE ELECTRICAL ENGINEER WITH TEN WORKING DAYS WRITTEN NOTICE OF THE SCHEDULED COMMISSIONING DATE. UPON COMPLETION OF THE SYSTEM FINE-TUNING THE FACTORY AUTHORIZED TECHNICIAN SHALL PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.
9. SUBMIT SHOP DRAWINGS INDICATING SENSOR LOCATIONS AND COVERAGE PATTERNS.

COMPLETION DOCUMENTS

DRAWINGS

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE CONTRACTOR, 3 COPIES OF RECORD AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:

A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.

B. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

MANUALS

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, 3 COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER BY THE CONTRACTOR. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

B. OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.

C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

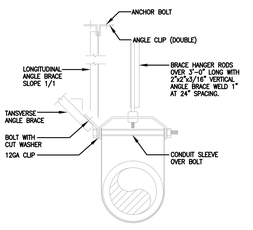
D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED PROJECT TO INSPECT THE EXISTING CONDITIONS AND DETERMINE THE SCOPE OF HIS WORK AND THE EXTENT OF DEMOLITION. THE SITE INSPECTION SHALL BE MADE PRIOR TO SUBMITTING BID FOR THE PROPOSED PROJECT. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO BIDDING OF DISCREPANCIES WHICH EXIST BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
3. FINAL AIMING OF ALL ADJUSTABLE LIGHT FIXTURES TO BE AS DIRECTED BY ARCHITECT.
4. REFER TO RISER DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS.
5. OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. REFER TO HVAC/ELECTRICAL SCHEDULE FOR WIRING DATA ON SPECIFIED EQUIPMENT.
6. CONTRACTOR SHALL COORDINATE INSTALLATION OF LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS, ETC. WITH STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.
7. CONTRACTOR SHALL PROVIDE ROUGH-IN AND MAKE FINAL CONNECTIONS OF ALL KITCHEN EQUIPMENT IN ACCORDANCE WITH KITCHEN DRAWINGS.
8. ALL JUNCTION BOXES AND COVERPLATES SHALL BE PAINTED AND LABELED. REFER TO DETAIL ON DRAWINGS.
9. ALL RECEPTACLES WITHIN (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
10. CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
11. PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT.
12. BACK TO BACK RECEPTACLES IN ALL ONE HOUR FIRE RATED WALLS SHALL BE LOCATED A MINIMUM OF 24" ON CENTER.
13. ALL WIRING SHALL BE IN METAL CONDUIT. EXCEPT IN LOW VOLTAGE SYSTEM. FIRE ALARM SYSTEM SHALL BE INSTALLED IN EMT CONDUIT.
14. TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTORS, RELAYS, PANELBOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75°C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC. ARE RATED FOR 60°C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT N.E.C. AND SIZED FOR THE 60°C COLUMN.
15. PROVIDE LABELING PER N.E.C. ARTICLE 110.16 FOR ARC FAULT FLASH PROTECTION. PROVIDE LABELS ON ALL SWITCHBOARDS AND PANELBOARDS. ENGINEER WILL PROVIDE INFORMATION FOR LABELING INCLUDING FLASH PROTECTION BOUNDARY AND PERSONAL PROTECTIVE EQUIPMENT (PPE).
16. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO PURCHASING EQUIPMENT. VERIFY THE ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT FURNISHED (NAME PLATE INFORMATION) AND MAKE CORRECTIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE EQUIPMENT LOCATIONS WITH MECHANICAL/PLUMBING DRAWINGS AND CONTRACTORS PRIOR TO ROUGH-IN.
17. BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT AND JUNCTION BOX FOR ALL ROOM SENSORS/THERMOSTATS AS INDICATED ON MECHANICAL PLANS. COORDINATE EXACT LOCATION AND BOX SIZES PRIOR TO ROUGH-IN.
19. PROVIDE SCALED DRAWINGS WITH SHOP DRAWINGS OF ALL ELECTRICAL ROOMS WITH ACTUAL EQUIPMENT FURNISHED FOR ENGINEERS REVIEW. PROVIDE NECESSARY CLEARANCES FOR PER THE NATIONAL ELECTRICAL CODE.
20. CONTRACTOR SHALL ASSURE THAT ALL WORKING CLEARANCES PER THE NEC ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN.
21. PROVIDE DEDICATED NEUTRAL FOR ALL 120-VOLT CIRCUITS. DO NOT SHARE NEUTRAL BETWEEN CIRCUITS.
22. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 110' IN LENGTH THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200' IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT.
23. EXIT SIGNS AND ALL EMERGENCY LIGHTING SHALL BE WIRED AHEAD OF ANY SWITCHING OR CONTACTORS. DO NOT SWITCH EXIT SIGNS OR EMERGENCY NIGHT LIGHTS. CONTRACTOR SHALL PROVIDE AN UNSWITCHED HOT TO BY-PASS ANY SWITCHING AND/OR CONTRACTORS FOR ALL SWITCHED EMERGENCY LIGHTING.

ELECTRICAL LEGEND

	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT NUMBER. SLASH MARKS INDICATES NUMBER OF CONDUCTORS IN SIZE CONDUIT AS REQUIRED BY THE N.E.C. NO SLASH MARK INDICATES 2#12, 1#12G. (/) INDICATES GREEN EQUIPMENT GROUND CONDUCTOR. PROVIDE DEDICATED NEUTRAL FOR ALL 120-VOLT CIRCUITS.
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN SLAB OR BELOW GRADE.
	PANELBOARD, 120/208V, 3 PHASE, 4 WIRE.
F	HEAVY DUTY DISCONNECT SWITCH, "F" INDICATES FUSED, "WP" INDICATES NEMA 3R ENCLOSURE.
M	MOTOR, HORSEPOWER INDICATED.
	LED ACRYLIC FIXTURE, TYPE INDICATED.
	LED ACRYLIC FIXTURE, SWITCHED EMERGENCY, TYPE INDICATED.
	LED ACRYLIC FIXTURE, UNSWITCHED EMERGENCY, TYPE INDICATED.
	LED SURFACE FIXTURE, TYPE INDICATED.
	LED SURFACE FIXTURE, SWITCHED EMERGENCY, TYPE INDICATED.
	LED DOWNLIGHT FIXURE, TYPE INDICATED.
	LED DOWNLIGHT FIXTURE, SWITCHED EMERGENCY, TYPE INDICATED.
	LED DOWNLIGHT FIXTURE, SWITCHED EMERGENCY, TYPE INDICATED.
	LED PENDANT FIXURE, TYPE INDICATED.
	WALL FIXTURE, TYPE INDICATED, WALL MOUNTED.
	L.E.D. EXIT SIGN, WALL MOUNTED, TYPE INDICATED.
	L.E.D. EMERGENCY BATTERY PACK, WALL MOUNTED, TYPE INDICATED.
	DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, ABOVE COUNTER TOP, MOUNT AT 44" AFF UNLESS NOTED OTHERWISE.
	DOUBLE DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, MOUNT ON CEILING GRID FOR OVERHEAD PROJECTOR. RECEPTACLE TO FACE ROOM
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, MOUNT AT 44" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. "WP" INDICATES NEMA 3R WEATHERPROOF ENCLOSURE WITH "IN-USE" COVER.
EDF	DUPLEX RECEPTACLE FOR ELECTRICAL DRINKING FOUNTAIN, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE GFI TYPE CIRCUIT BREAKER IN PANEL.
	COMMUNICATIONS OUTLET, PROVIDE 4"x4"x3" DEEP RECESSED JUNCTION BOX WITH RECESSED JUNCTION BOX WITH SINGLE GANG PLASTER RING. STUP UP 3/4" E.C. WITH PULL WIRE INTO ACCESSIBLE CEILING SPACE.
	COMMUNICATIONS OUTLET, PROVIDE 4"x4"x3" DEEP RECESSED JUNCTION BOX WITH RECESSED JUNCTION BOX WITH SINGLE GANG PLASTER RING. STUP UP 3/4" E.C. WITH PULL WIRE INTO ACCESSIBLE CEILING SPACE.
S	TOGGLE SWITCH, "2" INDICATES 2 POLE, "3" INDICATES 3 WAY, "4" INDICATES 4 WAY, "P" INDICATES PILOT LIGHT, "M" INDICATES MANUAL MOTOR CONTROLLER.
S_D	DIMMER SWITCH, LUTRON DIVA SERIES WITH 0-10V, SIZED FOR LOAD AND LAMP TYPE.
TS	DIGITAL TIMER SWITCH, WATTSTOPPER #TS-400. APPROVED EQUALS BY SENSOR SWITCH AND HUBBELL BUILDING AUTOMATION.
M1	2-POLE, PASSIVE INFRARED, WALL SWITCH/OCCUPANCY SENSOR. WATTSTOPPER #PW-200. APPROVED EQUALS BY SENSOR SWITCH AND HUBBELL BUILDING AUTOMATION.
M2	CEILING MOUNTED, ULTRASONIC OCCUPANCY SENSOR, WATTSTOPPER #UT-300. APPROVED EQUALS BY SENSOR SWITCH AND HUBBELL BUILDING AUTOMATION.
M3	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER #DT-300. APPROVED EQUALS BY SENSOR SWITCH AND HUBBELL BUILDING AUTOMATION.
M4	WALL MOUNTED, PASSIVE INFRARED OCCUPANCY SENSOR, LUTRON #LOS-WIR-WH.
MS	DIMMING SYSTEM 6-CHANNEL MASTER CONTROL STATION, LUTRON #QSGRJ-6P WITH QSGFP-WH-MST FACEPLATE KIT. COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING.
ES	DIMMING SYSTEM 3-BUTTON ENTRY STATION, LUTRON #QSWS2-3BI-WH. COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING.
P1	DIMMING SYSTEM 0-10V POWER MODULE, LUTRON #QRX-TVI.
P2	DIMMING SYSTEM INCANDESCENT POWER MODULE, LUTRON #PHPM-PA-120-WH.
J	JUNCTION BOX.
FH	FIRE ALARM HORN/STROBE UNIT, REFER TO SPECIFICATIONS.
FV	FIRE ALARM VISUAL ONLY STROBE UNIT, REFER TO SPECIFICATIONS.
F	FIRE ALARM MANUAL PULL STATION WITH LEXAN COVER, REFER TO SPECIFICATIONS.
S	FIRE ALARM SMOKE DETECTOR, REFER TO SPECIFICATIONS.
H	FIRE ALARM HEAT DETECTOR, REFER TO SPECIFICATIONS.



SEISMIC BRACING FOR CONDUIT

CONDUIT SIZE	ANGLE BRACE	BOLT TO ANGLE	ANGLE CLIP	ANCHOR BOLT OR INSERT
2-1/2"	2"x2" 16GA	3/8"	3"x3"x1/4"	3/8"
3", 4"	2-1/2"x2-1/2" 16GA	3/8"	3"x3"x1/4"	1/2"
ANGLE BRACE: 1-5/8"x1-5/8"x12GA CHANNEL MAY BE USED.				

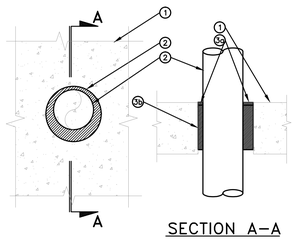
NOTES FOR SEISMIC BRACING

1. ALL SEISMIC BRACING AND SUPPORTS SHALL BE IN ACCORDANCE WITH SECTION 1206 OF THE STANDARD BUILDING CODE 1991 EDITION.
2. BRACE ALL CONDUIT 2-1/2" INSIDE DIAMTER AND LARGER.
3. TRANSVERSE AND VERTICAL BRACING SHALL OCCURE AT 40'-0" INTERVALS MAXIMUM, LANGITUDINAL BRACING SHALL OCCUR AT 80'-0" INTERVALS MAXIMUM.
4. WALL, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR CONDUIT.
5. LATERAL SEISMIC FORCE SHALL BE CONSIDERED TO ACT CONCURRENTLY WITH THE DEAD LOAD.
6. AT CONDUIT RISERS, WHERE POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY AT THE RISER.
7. DO NOT FASTEN ONE RIGID CONDUIT SYSTEM TO DISSIMILAR PARTS OF THE BUILDING THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE.

MAXIMUM CONDUIT SUPPORT SPACING

NOM. SIZE	THRU 3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
SPACING	7'-0"	7'-0"	7'-0"	9'-0"	10'-0"	11'-0"	12'-0"	14'-0"

1 SEISMIC BRACING DETAIL
SCALE: N.T.S.



THROUGH - PENETRATION FIRE STOP SYSTEMS
SYSTEM NO. C-AJ-1238
"F" RATING 2HR
"T" RATING 1/4HR

1. FLOOR OR WALL ASSEMBLY - MIN 5" THICK NORMAL WEIGHT (150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 14".
2. THROUGH PENETRATES - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTICALLY OR ECCENTRICITY WITHIN THE FIRE STOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING SHALL BE MIN 1/4" TO MAX 1". PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

a. STEEL PIPE - NOM 12"ø (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

b. CONDUIT - NOM 6"ø (OR SMALLER) RIGID STEEL CONDUIT.

c. CONDUIT - NOM 4"ø (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

d. IRON PIPE - NOM 12"ø (OR SMALLER) CAST OR DUCTILE IRON PIPE.

e. COPPER TUBING - 4"ø (OR SMALLER) TYPE "L" (OR HEAVIER) COPPER PIPE.

3. f. COPPER PIPE - NOM 4"ø (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

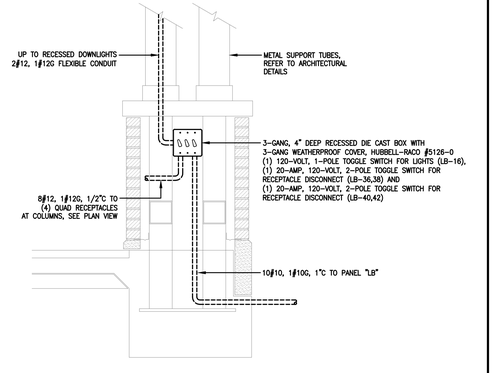
FIRE STOP SYSTEM - THE FIRE STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

a. PACKING MATERIAL - MIN 3 1/2" THICKNESS OF TIGHTLY-PACKED MINERAL - WOOL BATT MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL (ITEM 3B).

b. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.

FIRE STOP SYSTEMS INC. 4100 NS, 4100SL, 4800DW.
*BEARING THE UL CLASSIFICATION MARKING UNDERWRITERS LABORATORIES INC.

2 PIPE PENETRATION FOR FIRE RATED WALLS
SCALE: N.T.S.



3 OUTDOOR PAVILION SWITCHING DETAIL
SCALE: N.T.S.

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CITY OF CEDARTOWN, GEORGIA

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REVISION #	DATE / COMMENTS
1	ADDENDUM NO. 1
2	VE LIGHTING CHANGES

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
4/12/16

SHEET TITLE : ELECTRICAL LEGEND, NOTES, SCHEDULES AND DETAILS

MCKEE JOB # : 16.112

DRAWN BY : MTF / JBW

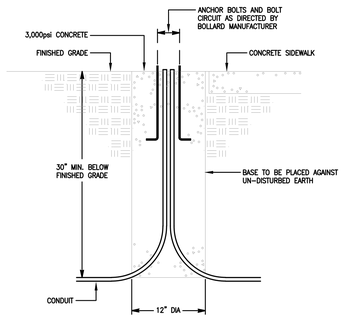
DATE: 04.12.16

REVISED DATE:

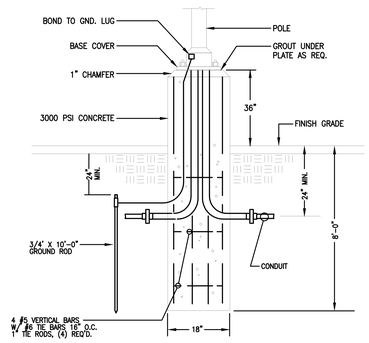
REVISED DATE:

REVISED DATE:

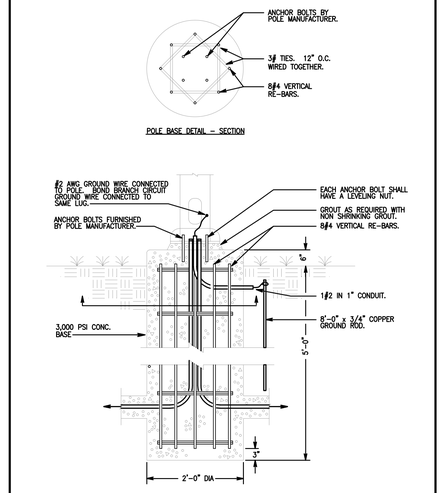
SHEET NO. : **E1.1**



4 SITE BOLLARD BASE DETAIL
SCALE: N.T.S. FIXTURE TYPE "OC"



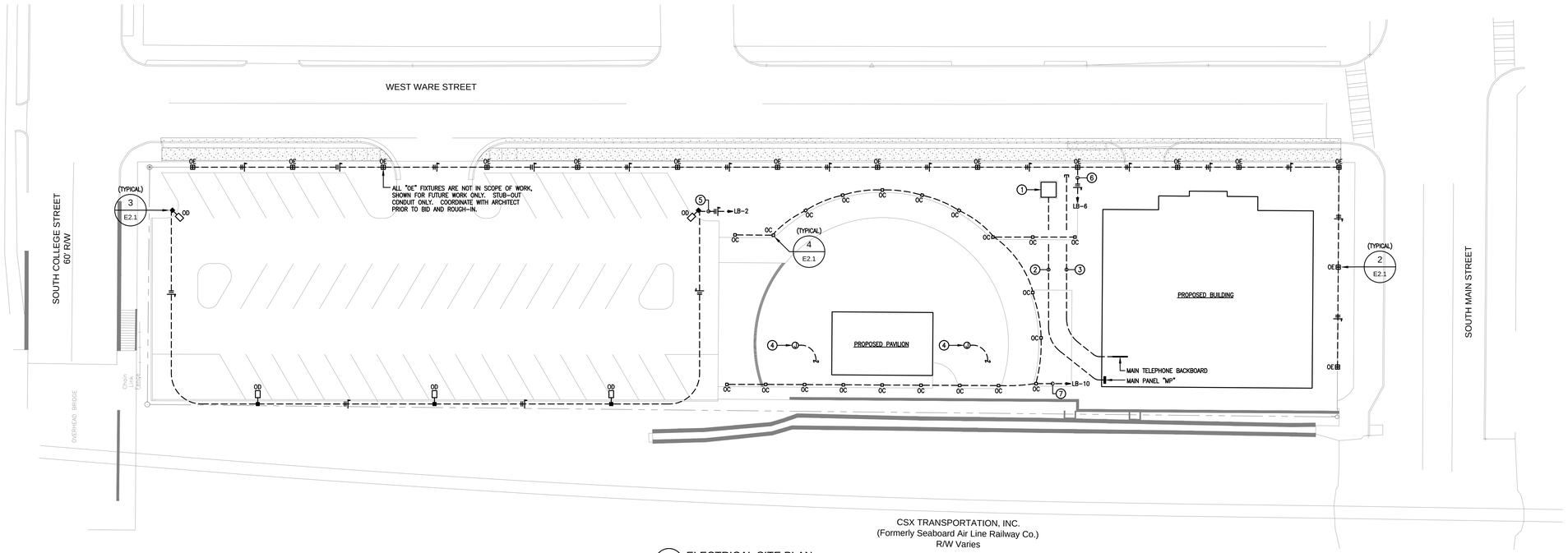
3 SITE LIGHT POLE BASE DETAIL
SCALE: N.T.S. FIXTURE TYPE "OD"



2 SITE LIGHT POLE BASE DETAIL
SCALE: N.T.S. FIXTURE TYPE "OE"

NOTES
(THIS SHEET ONLY)

1. PROPOSED LOCATION OF POWER COMPANY PAD MOUNTED TRANSFORMER, 120/208 VOLT, 3 PHASE, 4 WIRE. COORDINATE EXACT LOCATION, DETAILS AND METERING WITH POWER COMPANY PRIOR TO ROUGH-IN.
2. UNDERGROUND SERVICE, REFER TO RISER DIAGRAM.
3. UNDERGROUND TELEPHONE SERVICE, (2) 3" PVC CONDUITS TO PROPERTY LINE. STUB UP 3'-0" ABOVE GRADE. COORDINATE EXACT LOCATION WITH TELEPHONE COMPANY PRIOR TO ROUGH-IN.
4. INSTALL (1) 1" EMPTY CONDUIT WITH PULL-WIRE TO UTILITY ROOM #108 FOR FUTURE USE.
5. CONTROL VIA PHOTOCELL (ON) AND TIMECLOCK (OFF), ROUTE THROUGH LIGHTING CONTACTOR "LC#1". RUN #10 FOR THE ENTIRE LENGTH OF THE CIRCUIT.
6. CONTROL VIA PHOTOCELL (ON) AND TIMECLOCK (OFF), ROUTE THROUGH LIGHTING CONTACTOR "LC#2". RUN #10 FOR THE ENTIRE LENGTH OF THE CIRCUIT.
7. CONTROL VIA PHOTOCELL (ON) AND TIMECLOCK (OFF), ROUTE THROUGH LIGHTING CONTACTOR "LC#3".



1 ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"

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REVISION #	DATE / COMMENTS

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
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ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
4/12/16

SHEET TITLE : ELECTRICAL SITE PLAN

MCKEE JOB # : 16.112

DRAWN BY : MTF / JBW

DATE: 04.12.16

REVISED DATE:

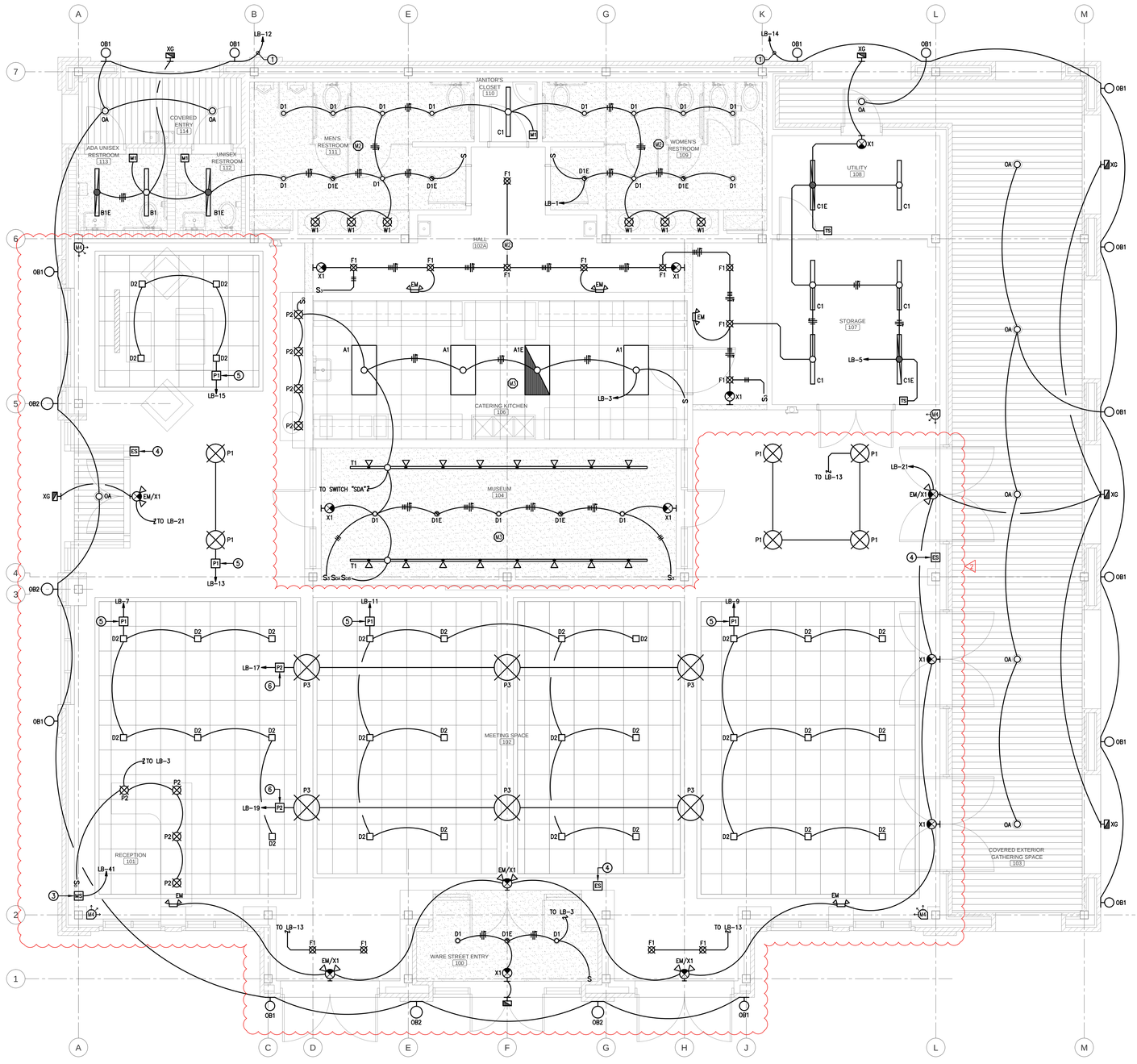
REVISED DATE:

REVISED DATE:

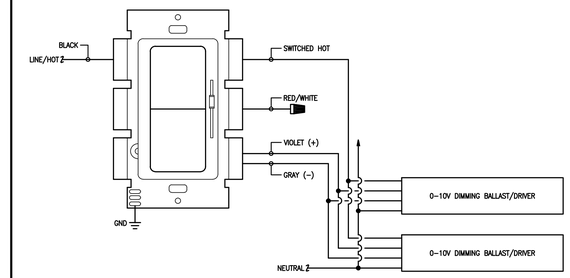
SHEET NO. : E2.1

NOTES
(THIS SHEET ONLY)

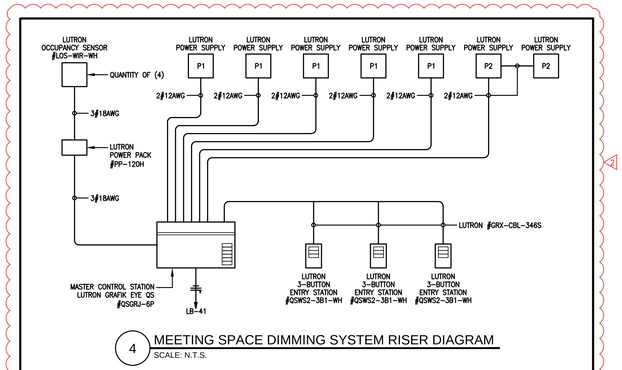
1. CONTROL VIA PHOTOCELL (ON) AND TIMECLOCK (OFF), ROUTE THROUGH LIGHTING CONTACTOR "LC#3".
2. REFER TO 2/E4.1 FOR CIRCUIT INFORMATION. CIRCUIT TO LB-16.
3. DIMMING SYSTEM 6-CHANNEL MASTER CONTROL STATION, LUTRON #QSGRJ-6P WITH QSGFP-WH-NST FACEPLATE KIT. COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING. REFER TO DIMMING SYSTEM RISER DIAGRAM 4/E3.1.
4. DIMMING SYSTEM 3-BUTTON ENTRY STATION, LUTRON #QSWS2-3B1-WH. COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING. REFER TO DIMMING SYSTEM RISER DIAGRAM 4/E3.1.
5. DIMMING SYSTEM 0-10V POWER MODULE, LUTRON #GRX-TVI. REFER TO DIMMING SYSTEM RISER DIAGRAM 4/E3.1.
6. DIMMING SYSTEM INCANDESCENT POWER MODULE, LUTRON #PHPM-PA-120-WH. REFER TO DIMMING SYSTEM RISER DIAGRAM 4/E3.1.



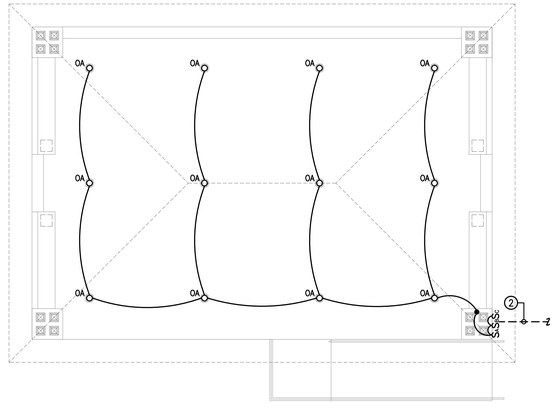
1 ELECTRICAL FLOOR PLAN - LIGHTING (MAIN BUILDING)
SCALE: 1/4"=1'-0"



3 TYPICAL SINGLE POLE 0-10V DIMMING WIRING DIAGRAM
SCALE: N.T.S.



4 MEETING SPACE DIMMING SYSTEM RISER DIAGRAM
SCALE: N.T.S.



2 ELECTRICAL FLOOR PLAN - LIGHTING (PAVILION)
SCALE: 1/4"=1'-0"

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REVISION #	DATE / COMMENTS
1	ADDENDUM NO. 1
2	VE LIGHTING CHANGES

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
4/12/16

SHEET TITLE : ELECTRICAL FLOOR PLAN LIGHTING

MCKEE JOB # : 16.112

DRAWN BY : MTF / JBW

DATE: 04.12.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E3.1

KITCHEN EQUIPMENT SCHEDULE

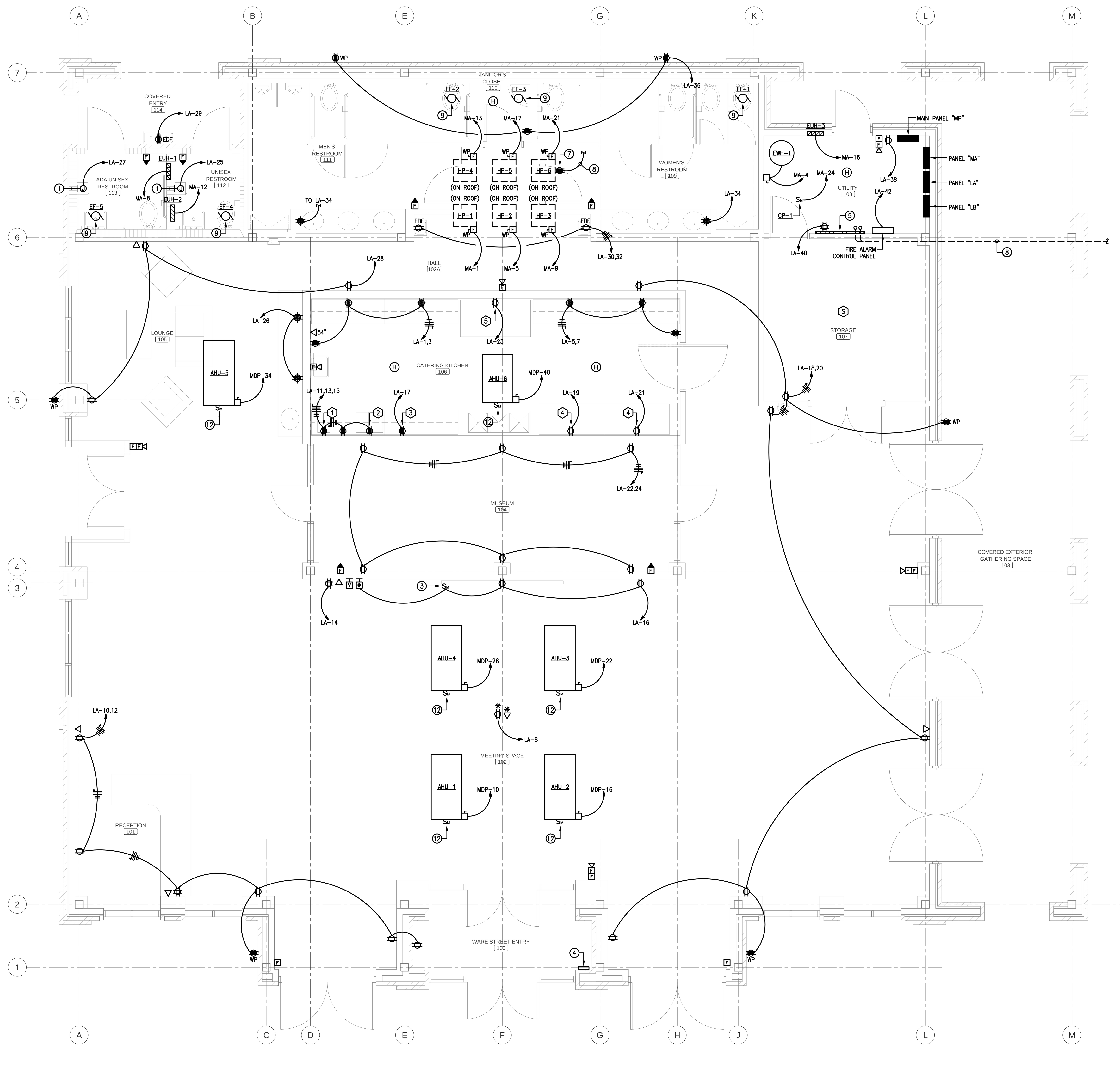
ITEM	DESCRIPTION	VOLTAGE/ PHASE	FLA	KVA	DISCONNECT	WIRE SIZE
1	COFFEE MAKER	120/1	15.0	1.8	PLUG	2#10, 1#10G, 1/2"C
2	TEA MACHINE	120/1	14.5	1.7	PLUG	2#10, 1#10G, 1/2"C
3	ICE MACHINE	120/1	10.0	1.2	PLUG	2#10, 1#10G, 1/2"C
4	HEATED CABINET	120/1	13.8	1.6	PLUG	2#10, 1#10G, 1/2"C
5	REFRIGERATOR	120/1	10.0	1.2	PLUG	2#10, 1#10G, 1/2"C

NOTES
(THIS SHEET ONLY)

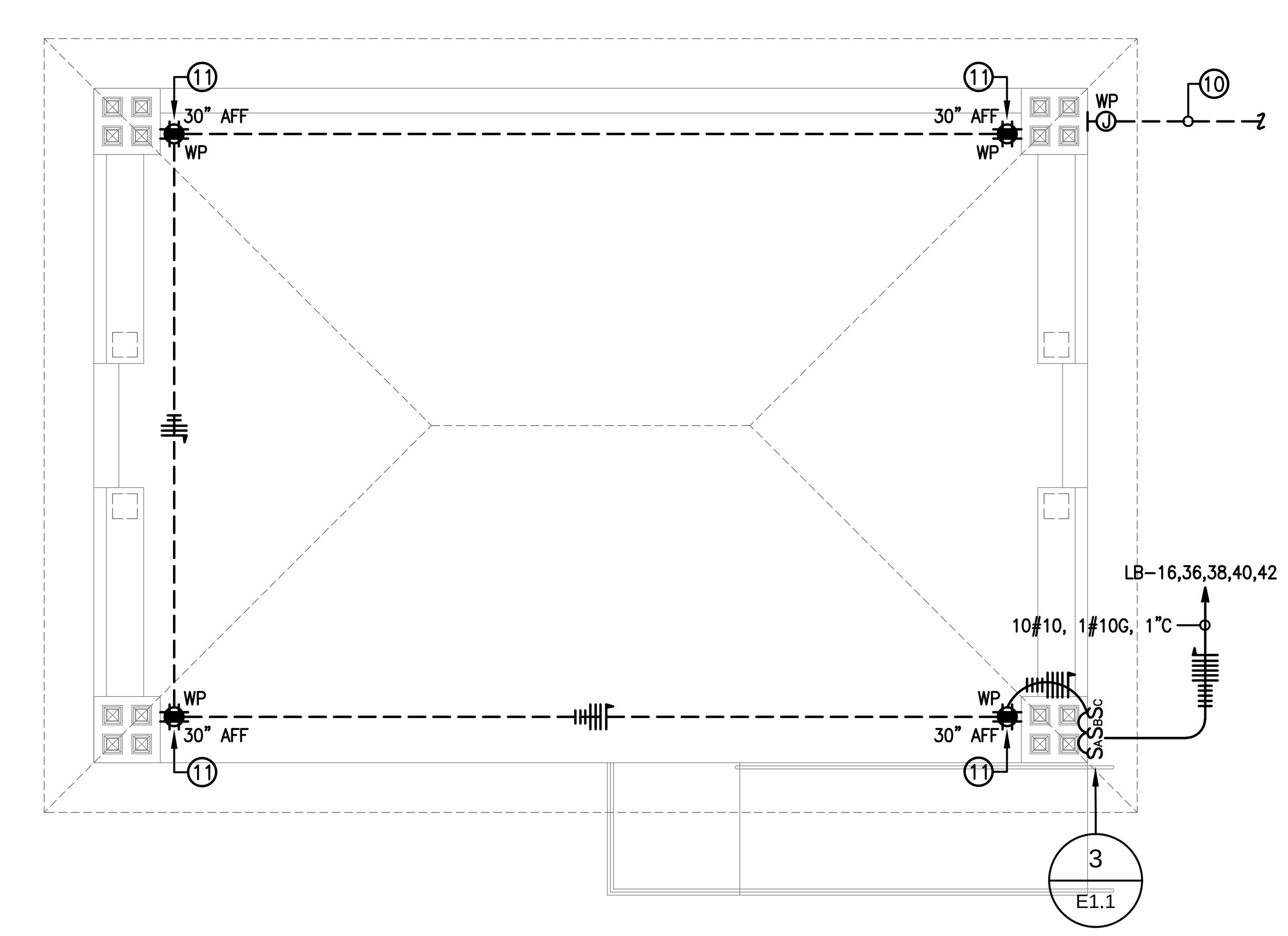
1. 120-VOLT JUNCTION BOX FOR ELECTRIC HAND DRYER. VERIFY EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.
2. RECEPTACLE AND TELECOMMUNICATIONS OUTLET ON CEILING FOR OVERHEAD PROJECTOR.
3. POWER FOR MOTORIZED SCREEN.
4. FIRE ALARM ANNUNCIATOR PANEL.
5. MAIN TELEPHONE BACKBOARD, 4'x8'x3/4" GRADE A/C PLYWOOD PAINTED WITH (2) COATS OF FIRE RESISTANT PAINT. RUN #6 GROUND TO MAIN BUILDING GROUND.
6. CONNECT TO NEAREST 120-VOLT RECEPTACLE CIRCUIT.
7. GFCI RECEPTACLE ON ROOF IN WEATHERPROOF ENCLOSURE WITH "IN-USE" COVER.
8. UNDERGROUND TELEPHONE SERVICE, REFER TO SITE PLAN.
9. CONNECT TO 120-VOLT LIGHTING CIRCUIT IN THIS ROOM, PROVIDE SEPARATE SWITCH.
10. (2) 1" PVC CONDUITS WITH PULL-WIRE TO UTILITY ROOM #108.
11. (2) 20-AMP GFCI RECEPACLES IN WEATHERPROOF ENCLOSURE WITH "IN-USE" COVER.
12. 120-VOLT POWER FOR MOTORIZED DAMPERS, COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT MA-26.

KITCHEN GENERAL NOTES

1. OVER-CURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR KITCHEN EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH EQUIPMENT CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE FINAL CONNECTION TO ALL KITCHEN EQUIPMENT AS REQUIRED BY KITCHEN EQUIPMENT SUPPLIER. REFER TO ELECTRICAL KITCHEN EQUIPMENT SCHEDULE FOR CIRCUIT INFORMATION.
2. PROVIDE STAINLESS STEEL COVER PLATES FOR ALL WIRING DEVICES IN KITCHEN.
3. FOR MOUNTING HEIGHTS OF RECEPTACLES, DISCONNECT SWITCHES, STARTERS, ETC., REFER TO KITCHEN AND ARCHITECTURAL DRAWINGS.
4. ALL 120-VOLT RECEPTACLES IN KITCHEN AND ALL ASSOCIATED AREAS TO BE GFCI TYPE RECEPTACLES.
5. ELECTRICAL DESIGN OF KITCHEN EQUIPMENT IS FOR EQUIPMENT SHOWN ON KITCHEN DESIGN DRAWINGS. PRIOR TO ROUGH-IN AND INSTALLATION, ELECTRICAL CONTRACTOR SHALL OBTAIN COPIES OF KITCHEN EQUIPMENT SHOP DRAWINGS FOR ACTUAL EQUIPMENT BEING INSTALLED AND MAKE NECESSARY CHANGES TO SCHEDULED CIRCUIT BREAKERS, WIRE, CONDUIT SIZES, ETC. TO ACCOMMODATE ACTUAL EQUIPMENT TO BE FURNISHED AT NO COST TO OWNER.



1 ELECTRICAL FLOOR PLAN - POWER (MAIN BUILDING)
SCALE: 1/4"=1'-0"



2 ELECTRICAL FLOOR PLAN - POWER (PAVILION)
SCALE: 1/4"=1'-0"

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FINAL DESIGN

CEVIAN DESIGN LAB JOB #
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ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
4/12/16

SHEET TITLE : ELECTRICAL FLOOR PLAN POWER

MCKEE JOB # : 16.112

DRAWN BY : MTF / JBW

DATE: 04.12.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E4.1

SERVICE	WATTS	NOTES	CKT NO.	A	B	C	CKT NO.	NOTES	WATTS	SERVICE
			1				2			
PANEL "MA"	38,000	–	3				4	–	–	SURGE PROTECTION DEVICE
			5				6			
			7				8			
PANEL "LA"	26,950	–	9				10	–	14,600	AHU-1
			11				12			
			13				14			
PANEL "LB"	12,560	–	15				16	–	14,600	AHU-2
			17				18			
			19				20			
SPARE	–	–	21				22	–	14,600	AHU-3
			23				24			
SPARE	–	–	25				26			
SPARE	–	–	27				28	–	14,600	AHU-4
SPARE	–	–	29				30			
SPACE	–	–	31				32			
SPACE	–	–	33				34	–	14,600	AHU-5
SPACE	–	–	35				36			
SPACE	–	–	37				38			
SPACE	–	–	39				40	–	14,600	AHU-6
SPACE	–	–	41				42			

PANEL SCHEDULE "MP"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE
MAINS: 800 AMP WITH 800/3 M.C.B.
BRANCHES: 20/1 EXCEPT AS NOTED
MOUNTING: SURFACE

CONNECTED LOAD
152.75 KVA

GENERAL NOTES:
– PROVIDE SEPARATE GROUND BUS
– PROVIDE SERVICE ENTRANCE LABEL

ALL CIRCUIT BREAKERS AND PANELBOARDS SHALL BE RATED FOR A MINIMUM CAPACITY OF 65,000 A.I.C. SERIES RATING MAY BE USED. PROVIDE LABELING PER N.E.C. 110-22.

SERVICE	WATTS	NOTES	CKT NO.	A	B	C	CKT NO.	NOTES	WATTS	SERVICE
HP-1	4,240	–	1				2			
			3				4	–	9,000	EWH-1
HP-2	4,240	–	5				6			
			7				8	–	560	EUH-1
HP-3	4,240	–	9				10			
			11				12	–	560	EUH-2
HP-4	4,240	–	13				14			
			15				16	–	1,120	EUH-3
HP-5	4,240	–	17				18			
			19				20	–	–	SPARE
HP-6	4,240	–	21				22			
			23				24	–	200	CP-1
SPARE	–	–	25				26	–	600	MOTORIZED DAMPERS
			27				28	–	–	SPARE
SPARE	–	–	29				30	–	–	SPACE
SPARE	–	–	31				32	–	–	SPACE
SPARE	–	–	33				34	–	–	SPACE
SPACE	–	–	35				36	–	–	SPACE
SPACE	–	–	37				38	–	–	SPACE
SPACE	–	–	39				40	–	–	SPACE
SPACE	–	–	41				42	–	–	SPACE

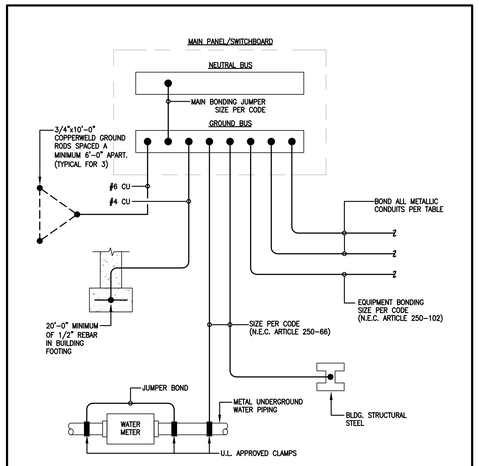
PANEL SCHEDULE "MA"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE
MAINS: 225 AMP M.L.O.
BRANCHES: 20/1 EXCEPT AS NOTED
MOUNTING: SURFACE

CONNECTED LOAD
38.00 KVA

GENERAL NOTES:
– PROVIDE SEPARATE GROUND BUS

ALL CIRCUIT BREAKERS AND PANELBOARDS SHALL BE RATED FOR A MINIMUM CAPACITY OF 65,000 A.I.C. SERIES RATING MAY BE USED. PROVIDE LABELING PER N.E.C. 110-22.



2 ELECTRICAL SERVICE GROUNDING DETAIL
SCALE: N.T.S.

ELECTRICAL RISER DIAGRAM NOTES

1. POWER COMPANY PAD MOUNTED TRANSFORMER 120/208Θ VOLT, 3 PHASE, 4 WIRE. COORDINATE EXACT LOCATION, DETAILS AND METERING WITH POWER COMPANY PRIOR TO ROUGH-IN.
2. SURGE PROTECTION DEVICE, SURGE SUPPRESSION INC #CDL3Y1.
3. UNDERGROUND SERVICE, (2) SETS OF 4#600kcmil, 3-1/2"C.
4. 4#3/0, 1#6G, 2-1/2"C.
5. 4#1/0, 1#6G, 2"C.
6. 4#3, 1#8G, 1-1/4"C.
7. TIMECLOCK, TORK DIGITAL 24/7 SERIES.
8. SURGE PROTECTION DEVICE, SURGE SUPPRESSION INC #CKL3Y1.

LIGHTING CONTACTOR SCHEDULE

DESCRIPTION	AREA SERVED	ASSOC. PANEL	# OF POLES	QUANTITY	RATING	ENCLOS.	H-O-A SWITCH
LC#1	PARKING AREA	"LB"	4	1	30 AMP	NEMA 1	YES
LC#2	PEDESTRIAN AREA	"LB"	4	1	30 AMP	NEMA 1	YES
LC#3	BUILDING/WALKWAYS	"LB"	6	1	30 AMP	NEMA 1	YES

SERVICE	WATTS	NOTES	CKT NO.	A	B	C	CKT NO.	NOTES	WATTS	SERVICE
RCPT – KITCHEN (COUNTER)	500	–	1				2			
RCPT – KITCHEN (COUNTER)	500	–	3				4	–	–	SURGE PROTECTION DEVICE
RCPT – KITCHEN (COUNTER)	500	–	5				6			
RCPT – KITCHEN (COUNTER)	500	–	7				8	–	1,000	RCPT – MEETING SPACE (PROJECTOR)
RCPT – KITCHEN (COUNTER)	500	–	9				10	–	360	RCPT – MEETING SPACE
RCPT – KITCHEN	360	–	11				12	–	540	RCPT – MEETING SPACE
COFFEE MAKER #1	1,800	–	13				14	–	500	RCPT – MEETING SPACE
TEA MACHINE #2	1,740	–	15				16	–	360	RCPT – MEETING SPACE
ICE MACHINE #3	1,200	–	17				18	–	720	RCPT – MEETING SPACE
HEATED CABINET #4	1,600	1	19				20	–	720	RCPT – MEETING SPACE
HEATED CABINET #4	1,600	1	21				22	–	540	RCPT – MUSEUM
REFRIGERATOR #5	1,200	1	23				24	–	540	RCPT – MUSEUM
ELECTRIC HAND DRYER	1,500	1	25				26	–	360	RCPT – LOUNGE
ELECTRIC HAND DRYER	1,500	1	27				28	–	540	RCPT – LOUNGE
RCPT – EDF	750	1	29				30	1	750	RCPT – EDF
SPARE	–	–	31				32	1	750	RCPT – EDF
SPARE	–	–	33				34	–	360	RCPT – RESTROOM
SPARE	–	–	35				36	–	360	RCPT – JANITOR, EXTERIOR
SPACE	–	–	37				38	–	360	RCPT – UTILITY
SPACE	–	–	39				40	–	500	RCPT – UTILITY (TELEPHONE BACKBOARD)
SPACE	–	–	41				42	2, 3	500	FIRE ALARM CONTROL PANEL

PANEL SCHEDULE "LA"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE
MAINS: 225 AMP M.L.O.
BRANCHES: 20/1 EXCEPT AS NOTED
MOUNTING: SURFACE

CONNECTED LOAD
26.95 KVA

GENERAL NOTES:
– PROVIDE SEPARATE GROUND BUS

NOTES:
1. PROVIDE GFCI CIRCUIT BREAKER
2. PROVIDE "RED" CIRCUIT BREAKER
3. PROVIDE "LOCK-ON" DEVICE

ALL CIRCUIT BREAKERS AND PANELBOARDS SHALL BE RATED FOR A MINIMUM CAPACITY OF 65,000 A.I.C. SERIES RATING MAY BE USED. PROVIDE LABELING PER N.E.C. 110-22.

SERVICE	WATTS	NOTES	CKT NO.	A	B	C	CKT NO.	NOTES	WATTS	SERVICE
LTG – RESTROOMS, JANITOR	1,009	–	1				2	1	725	EXTERIOR LTG – PARKING
LTG – MUSEUM, KITCHEN	730	–	3				4			
LTG – HALL, STORAGE, UTILITY	579	–	5				6	2	2,250	EXTERIOR LTG – PEDESTRIAN
LTG – MEETING SPACE	238	–	7				8			
LTG – MEETING SPACE	306	–	9				10	3	315	EXTERIOR LTG – WALKWAYS
LTG – MEETING SPACE	408	–	11				12	3	458	EXTERIOR LTG – BUILDING
LTG – ENTRY AREAS, BEVERAGE BAR	748	–	13				14	3	408	EXTERIOR LTG – BUILDING
LTG – LOUNGE	136	–	15				16	–	444	EXTERIOR LTG – PAVILION
LTG – MEETING SPACE	1,080	–	17				18	–	–	SPARE
LTG – MEETING SPACE	1,080	–	19				20	–	–	SPARE
LTG – MEETING SPACE EMERGENCY LIGHTING	300	–	21				22	–	–	SPARE
SPARE	–	–	23				24	–	–	SPACE
SPARE	–	–	25				26	–	–	SPACE
SPARE	–	–	27				28	–	–	SPACE
SPACE	–	–	29				30	–	–	SPACE
SPACE	–	–	31				32	–	–	SPACE
SPACE	–	–	33				34	–	–	SPACE
SPACE	–	–	35				36	–	360	RCPT – PAVILION
SPACE	–	–	37				38	–	360	RCPT – PAVILION
SPACE	–	–	39				40	–	360	RCPT – PAVILION
DIMMING SYSTEM MASTER STATION	200	–	41				42	–	360	RCPT – PAVILION

PANEL SCHEDULE "LB"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE
MAINS: 100 AMP M.L.O.
BRANCHES: 20/1 EXCEPT AS NOTED
MOUNTING: SURFACE

CONNECTED LOAD
12.56 KVA

GENERAL NOTES:
– PROVIDE SEPARATE GROUND BUS

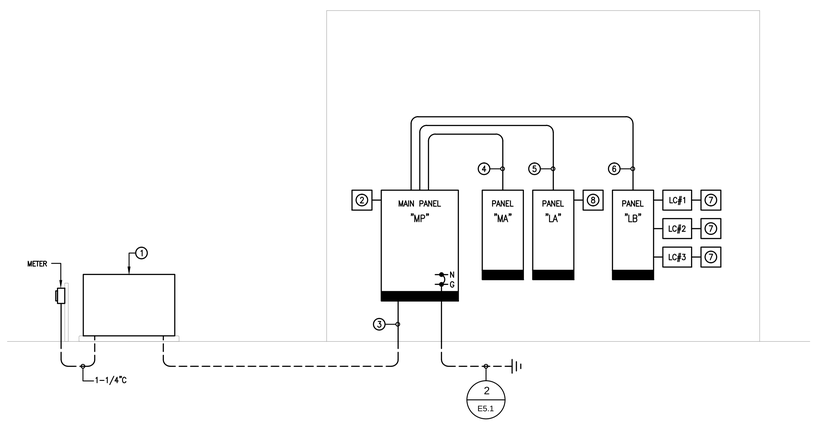
NOTES:
1. ROUTE THROUGH CONTACTOR "LC#1"
2. ROUTE THROUGH CONTACTOR "LC#2"
3. ROUTE THROUGH CONTACTOR "LC#3"

ALL CIRCUIT BREAKERS AND PANELBOARDS SHALL BE RATED FOR A MINIMUM CAPACITY OF 65,000 A.I.C. SERIES RATING MAY BE USED. PROVIDE LABELING PER N.E.C. 110-22.

HVAC/ELECTRICAL SCHEDULE

MARK	VOLT/PHASE	FLA	KVA	MCA	MOCP	DISC. SIZE (F) = FUSED	WIRE SIZE	NOTES
AHU-1	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
AHU-2	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
AHU-3	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
AHU-4	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
AHU-5	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
AHU-6	208/3	40.5	14.60	47.7	50/3	60/3	3#8, 1#10G, 1"C	–
CP-1	120/1	4.4	1.1	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EF-1	120/1	4.4	0.52	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EF-2	120/1	4.4	0.52	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EF-3	120/1	2.2	0.26	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EF-4	120/1	2.2	0.26	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EF-5	120/1	2.2	0.26	–	20/1	MTR RTD SWITCH	2#12, 1#12G, 1/2"C	–
EWH-1	208/3	25.0	9.0	–	35/3	60/3	3#8, 1#10G, 1"C	–
EUH-1	208/1	2.7	0.56	–	20/2	–	2#12, 1#12G, 1/2"C	3
EUH-2	208/1	2.7	0.56	–	20/2	–	2#12, 1#12G, 1/2"C	3
EUH-3	208/1	5.4	1.12	–	20/2	–	2#12, 1#12G, 1/2"C	3
HP-1	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–
HP-2	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–
HP-3	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–
HP-4	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–
HP-5	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–
HP-6	208/1	20.4	4.24	25.2	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	–

NOTES:
1. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 600 VOLT, WITH VARIABLE COVER INTERLOCK, NEMA 1 FOR INDOOR USE AND NEMA 3R FOR OUTDOOR USE.
2. OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
3. DISCONNECT PROVIDED WITH UNIT.



1 ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

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REVISION #	DATE / COMMENTS
1	ADDENDUM NO. 1
2	VE LIGHTING CHANGES

FINAL DESIGN

CEVIAN DESIGN LAB JOB #
15045
ISSUED BY
CEVIAN® Design Lab, LLC
ISSUE DATE
4/12/16

SHEET TITLE : ELECTRICAL RISER DIAGRAM, NOTES, SCHEDULES AND DETAILS

MCKEE JOB # : 16.112

DRAWN BY : MTF / JBW

DATE: 04.12.16

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : E5.1